

THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



# CANDIDATES' ITEM RESPONSE ANALYSIS REPORT ON THE ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ACSEE) 2023

# GEOGRAPHY



THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY NATIONAL EXAMINATIONS COUNCIL OF TANZANIA



# CANDIDATES' ITEM RESPONSE ANALYSIS (CIRA) REPORT ON THE ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ACSEE) 2023

**113 GEOGRAPHY** 

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### FOREWORD

The report on the Candidates Item Response Analysis (CIRA) for the 2023 Advanced certificate of Secondary Education Examination (ACSEE) for Geography subject has been prepared by the National Examinations Council of Tanzania (NECTA). The aim of this report is to provide feedback to different educational stake holders including students, teachers, parents, policy makers and the public in general on the performance of the candidates in Geography subject. It also aims at showing the extent to which the instructional goals and objectives have been met.

Principally, the candidates' responses to the examination questions indicated what the education system was able/unable to offer students in the two years of Advanced Certificate of Secondary Education.

In this report, the analysis of each question is covered and some statistical data are presented in figures and graphs. Factors that may have contributed to the candidates' ability to answer the examination questions correctly and score high marks include the ability to understand the demands of the question, having basic knowledge of the subject matter, having skills in computing and drawing, good mastery of English language and essay writing skills. The candidates who scored low marks depicted contrary attributes.

NECTA believes that, this report shall serve as the basis for enabling all educational stake holders including educational administrators, school managers, teachers and students to identify the proper measures to be taken in order to improve candidates' performance in the future examinations administered by the Council.

Finally, the National Examinations Council of Tanzania is gratefully to all Examination Officers and other stakeholders who provided valuable assistance during the preparation of this report.

Dr. Said A. Mohamed EXECUTIVE SECRETARY

### **1.0 INTRODUCTION**

The 2023 Advanced Certificate of Secondary Education Examination (ACSEE) Geography subject covered the 2010 syllabus and adhered to the 2019 examination format (revised version). The examination consisted of two papers; 113/1 Geography paper 1 and 113/2 Geography paper 2. Paper one consisted of two sections; A and B with a total of seven (7) questions. The candidates were required to answer five (5) questions. Section A consisted of three (3) questions from the following topics; *Topographic Map Interpretation, Photograph Interpretation* and *Application of Statistics in Geography*. The candidates were required to attempt two questions from this section. Question number one was compulsory. Section B had four (4) questions which were set from the following topics: *Water Masses, Space Dynamics, Position Behaviours and Structure of the Earth and Study of Soils.* The candidates were required to attempt three (3) questions from this section.

Paper two consisted of seven (7) questions which were set from the topics of *Population and Development* and *Regional Focal Studies* which involed the sub-topics of: *Agricultural Development, Transport and Communication, Sustainable Use of Forestry, Sustainable Use of Fuel and Power; and Manufacturing Industries.* The candidates were required to attempt a total of five (5) questions, again, question number one (1) was compulsory.

This report provides analysis on the performance of the candidates in each question by showing what they were required to do as well as the strengths and weaknesses of their responses. Samples of the candidates' answers are shown to illustrate their responses. In the analysis, the performance in each topic is ranked as weak, average and good if the percentages of candidate's scores range from 0 to 34, 35 to 59 and 60 to 100 respectively. The candidates' performance is summarized in the appendix whereby green, yellow and red colours are used to represent good, average and weak performances respectively.

A total of 53,765 candidates sat for the ACSEE 2023 Geography subject, out of which 53,647 (99.99%) candidates passed while, 4

(0.01%) failed. Generally, the performance for the ACSEE 2023 increased compared to the ACSEE 2022 in which 99.87 per cent of the candidates passed and 0.13 per cent failed.

It is expected that this report will be useful to all educational stakeholders. It will also enable teachers and students to improve the teaching and learning processes in Geography subject.

# 2.0 ANALYSIS OF THE CANDIDATES' PERFORMANCE IN EACH QUESTION

The Advanced Certificate of Secondary Education Examination (ACSEE) Geography subject is designed to test candidates' ability to comprehend and apply knowledge and skills in various situations. It also tests the ability to demonstrate, analyse, reason and interpret various Geographical phenomena such as physical features, map work, climate change and drawing conclusion from the observations and interpretations of different statistical phenomena.

## 2.1 113/1 GEOGRAPHY PAPER ONE

# SECTION A: Topographic Map Interpretation, Application of Statistics in Geography, Simple Survey and Map Making and Photograph Interpretation Topics

#### 2.1.1 Question 1: Topographic Map Interpretation

The question consisted of eight parts; (a), (b), (c) (d), (e), (f), (g) and (h). The candidates were required to study carefully the map extract of Uvinza sheet 113/2 provided and then to: (a) *locate by Latitudes and Longitudes the place found at grid reference 135376*, (b) from grid reference 090340 toward the Eastern part of the map, the river reflects a certain stage of development; then (i) with an evidence, comment on the stage of the river development, (ii) identify three features formed by the river in the stage identified in (b) (i); (c) with evidence, point out three modes of transport common to the people at Uvinza, (d) determine the length of the River Ruchugi to its main river junction in km, (e) suggest two environmental problems which might be facing the people

at Uvinza, (f) identify two main sources of surface water for the people residing in the area, (g) besides the contour method, identify the second method applied by the cartographer to show relief features and (h) suggest four challenges to the mobility of people in the Western side. The total marks allocated for this question were 25.

This was a compulsory question and therefore, it was answered by all 53,765 (100%) candidates, whereby 6,922 (12.87%) candidates scored 15 to 25 marks, 27,678 (51.48%) scored 9 to 14.5 marks and 19,165 (35.65%) scored 0 to 8.5 marks. Generally, the performance was good since 34,600 (64.35%) candidates scored 9 marks and above. Figure 1 illustrates the candidates' performance for this question.

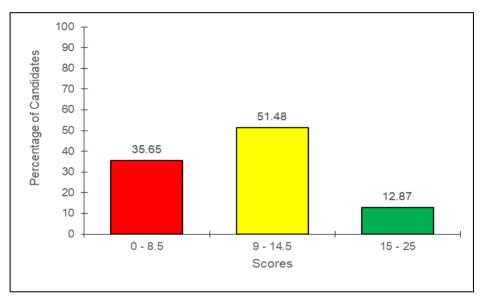


Figure 1: Candidates' Performance in Question 1

The analysis showed that 6,922 (12.87%) candidates who scored 15 to 25 marks had sufficient knowledge and skill on *Topographical Map Interpretation* whereby in part (a), they located the position of a place through the use of Latitude and Longitude. For example, one candidate wrote,  $5^05$  'S  $30^025$ ' E.

In part (b) (i), they commented on the stage of river development from grid reference 090340 to the Eastern part of the mapped area with evidence. For example, one candidate wrote *Old stage*. Likewise, in (b)

(ii) they named three features formed by the river at the identified stage. The features were; *meanders, ox-bow lake and flood plain.* 

Likewise, in part (c) with evidence, they extracted the three modes of transport shown on the topographical map. The three modes of transport common to people at Uvinza were:

- (i) Road transport evidenced by all-weather roads at Uvinza sub town and series of main tracts in North East. The loose surface road found at grid reference 117280 to 064425.
- *(ii) Railway transport evidenced by railway line crossing the central part from Eeastern side to North West at 017355 to 145338.*
- *(iii) Water transport evidenced by the presence of ferry at Uvinza built up area around grid reference 145334.*
- *(iv) Air transport evidenced by the run way North West of Nyanza salt mines in the eastern part the mapped area.*
- (v) Pipeline transport evidenced by water pipeline found at grid reference 1199330.

In part (d), they determined the length of river Ruchugi in kilometers. Most candidates wrote 12.5 or 13 kms.

In part (e), they suggested two environmental problems which might be facing the people at Uvinza as follows:

- (i) Floods due to the existence of river and the flood plain to the Eastern side of the mapped area.
- *(ii) Pollution due to discharge from salt mining industry.*
- *(iii)* Deforestation or Loss of biodiversity due to cutting down of trees for drying salt.
- *(iv)* Soil acidity seem to be high because of salt in the mapped area.
- (v) Water logging due to the presence of rivers for example Ruchugi river.

In part (f), they identified two main sources of surface water on the mapped area which are:

- (i) Rivers evidenced by the presence of main river moving from Western part to Eastern part at the center and river Ruchugi moving from north to south.
- (ii) Dams in the Western side of the Uvinza center.

In addition to that, in part (g) beside the contour method used, they managed to identify another method used by the cartographer to show the relief features on the mapped area. This was *spot height* evidenced by the *Spot height 1188 in the South Eastern side and the sport height of 1068 at grid reference 055346*.

Moreover, in part (h), the candidates explained the four challenges facing the mobility of people in the North Western side of the mapped area. For example, one candidate wrote:

- *(i) Restriction due to reserved forest(woodland) in the North West.*
- (ii) Terrain of the area where the area is dominated by hills.
- *(iii) Series of drained V shaped valleys evidenced by rivers.*
- (iv) The main rivers found in the Western part which is wide to limit easy crossing from either Southern to Northern or Northern to Southern part of the mapped area.

However, the variations of their scores depended on the strengths and accuracy of their responses. Extract 1.1: is a sample of a correct response for question one.

01a The latitudunal location is 5°5' (south) and the longitudunal location is 30°25' (fast)
015 SThe stage of river development is 01d stage of development (lawer stream)
This can evidenced by presence of braided stream
around the area of grid reference (130336)
This can evidenced by presence of braided streams around the area of grid reference (130336) Indicating occurrence of department achieves
11> Other features formed at old stage include Yazoo stream
yazoo stream
Thu is a deferred tubulary which is forced to
travel alongial the main stream for a long
The is a deferred tributary which is forced to travel alongside the main stream for a long distance before rejoining back to the main stream It can be ellustrated as pollows
alluvium (Natura Iseves) or vegetation
or vegetation
Jarean Jarean
Main nuer
Ox-bow lake
In the entropy area for lowered has described active
on the path of a nurr. It is usually crossent
shapod. The car process of formation can be
on the path of a nutr. It is usually crescent shaped. The car process of formation can be ulustrated as pollow

016 Ø ĩ Ox- bow Tallund lake Main stream Ox-bow lake mer depuition starb Normal flow of to occur within Meander formed while main meander stregens flows naturally Natural levées Are ridge like teatures formed at the over banks due to deposition of alluvium alongside nver banks TA)-- (A) 19-5 Huud blain t 1 Levées Wahral tiver stream old Common moder of transport or in Uning are Water transport This can be evidenced by presence of perennial niver withing acruss the map (niver RyCHucri) also presence of ferry at gird reference 105346

7

OIC Land transport (railway transport) This can be evidenced by prosence of railway line minning across the mop from and reported 145338 to 015388 Pipeline transport This can be evidenced by presence of water pipelines minning around the acruss the map as per indicated at grid repronce 095345 old ore People of Uniza might foce air pollution This can be caused by presence of power plants which tend to produce industrial poisionous and hormpul gaves at grid reference 136360 People of Uninza might be facing floods especially rain seasons due to alocation of town near the main nuer whereas night be within the flood plain 011 The two main sources of surface water for Unina people are River Ruchugi which is perennial in notice This can be evidenced by the niver ninning across the map with wide representation Dama reservidar This can also be a source of water supply to the people. It can be evidenced by presence of a dam (Newasa reservoir) at grid reference 084354 (084361)

8

'spotheight The cartographer has wed to show relief Olg teatura the 1potheraht eisidentoc at 1068 and reference 055 346 north Challenges the prople 61h 01 In Wastern side vanow Manj Of transport moch 01 north 1 vidence ŝ the (an there way 0n transport pathwan Prosonce unral lan presonce of that unroliable heavy (an raintall hG Presence Multiple river 01 Ibroan publon of water logging rain hindrances lawing MOB slavon rain the people barnier Slope tomation Juste honco GJ wads pense slopa can be and reference 026424 amund

Extract 1.1: A sample of a correct response for question 1

Moreover, 27,678 (51.48%) candidates who scored 9 to 14.5 marks revealed moderate knowledge and skills on the topic of *Topographical Map Interpretation*. Most of them answered correctly only few parts of the question and mixed-up correct and incorrect responses in some parts

of the question. Some candidates failed to locate position using Latitude and Longitude, whereas others skipped some parts of the question. Others provided fewer responses contrary to the demand of the question.

Furthermore, 19,165 (35.65%) candidates who scored from 0 to 8.5 marks revealed lack of knowledge and skills on the topic of *Topographical Map Interpretation*. In part (a), some candidates failed to locate the place found at grid reference 135376 using Latitude and Longitude. For example, one candidate wrote incorrect location as *135 Longitudes* and *376 Latitudes*. This shows that the candidate had insufficient skills of identifying positions by the use of grid references and locating positions using Latitude and Longitude.

In part (b), some candidates commented correctly on the stage of river development as *old stage*. However, they failed to identify the major features associated with this stage of river development. For example, one candidate wrote features like *U-shaped valley, misfit, elbow* and *bluff*. Others mixed correct and incorrect features formed by the river in the old stage. For example, one candidate wrote *meander* which was correct, *V-shaped valley* and *interlocking spurs* which were incorrect responses.

In part (c), some candidates pointed out the modes of transport correctly, but they mentioned without providing evidences from the map and others did not provide answers. For example, one candidate wrote *water transport, road transport* and *railway transport*. Other candidates mixed correct and incorrect responses. For example, one candidate wrote *animal transport* and *cable transport* which were incorrect answers and *road transport* which was correct.

In part (d), some candidates performed poorly as they failed to determine the length of River Ruchugi to its main river junction while others failed to convert the map scale into the actual ground distance. For example, one candidate obtained *38 cm* as the measurement on the map which was wrong and also wrongly converted it into actual ground distance. This candidate showed lack of measurement skills.

In part (e), some candidates suggested the environmental problems which might be facing the people at Uvinza. Others mentioned without providing evidence, for example one candidates wrote *outbreak of diseases and hunger*.

In part (f), some candidates failed to identify the main sources of surface water in the area with evidences. Some identified correctly the sources of surface water without writing their location on the map while, other candidates provided incorrect evidences. For example, one candidate wrote *Lake Tanganyika* and *rainfalls* which were not correct another candidate wrote *underground water due to the presence of rapids and spring water*.

In part (g), most candidates identified the second method of showing relief features which was *spot height* but failed to provide evidence or location on the map others provided incorrect responses. Examples of incorrect responses provided were *Bench mark, Layer tinting* and *Trigonometric station*.

In part (h), most candidates failed completely to suggest the challenges to the mobility of people in Northern Western side. Examples of the incorrect challenges provided were; *high rainfalls, electricity problems, lack of health services, poor infrastructure, increase of temperature* and *lack of social services*. The correct ones were; *restriction due to reserved forest, hills, series of drained v-shaped valleys and the main river*. Extract 1.2 represents the candidate's incorrect responses for some parts of this question.

· · · · · · · · · · · · · · · · · · ·
1 9) locate the aritude and loraitude in the place
1 9. locate the latitude and longitude in the place
• The latitude and longitude are 30 25 and 5 5
bi (1). The space of the river development is vanna
b). (i). The stage of the river development is young vive development stage.
The development stage.
iv. Three features formed atte fire above.
· la prepense of Swamp.
Ile presence of Swamp. The presence of Scrub. The presence of Scrub.
· TTO Breconde Constants
C. The three Wodes of temport common to people act uvited
v. Water transport due to the prepense of swamp
viver and viver.
ic and transport due to the seconce of vard our
C: The three Nodes of transport common to people at uniting i. Water transport free to the prepense of swamp where: and viber. ii. Land transport due to the presence of road sur face.
ili Pail way to man the to the accurace of Pailes
iii. Rail way transport due to the prepense of Railm Y Sinding Station.
Jinding Station.

Extract 1.2: A sample of incorrect response for question 1

In extract 1.2, the candidate failed to locate the position of the map using Latitude and Longitude. The candidate interchanged the Latitudes with Longitudes by identifying longitudes as Latitudes and Latitude as Longitude in part (a). In part (b) (i), the candidate mentioned young stage of the river which was incorrect. The correct stage was the Old stage of the river development. In part (b) (ii), the candidate mentioned incorrect features for the stage which are *presence of swamps*, *presence* of scrub and the presence of contour. Swamps are the areas with stagnant water mostly found in lowland areas. Scrubs are small vegetation which are found in areas with little rainfall, and contours are one of the methods which are used to represent relief features. In part (c), the candidate provided the correct answers on the modes of transportation. This indicated that the candidate had little knowledge on the tested subtopic, hence mixed various concepts found in the topic of Topographic Map Interpretation contrary to the demand of the question.

### 2.1.2 Question 2: Photograph Interpretation

This question was divided into two parts (a) and (b). In Part (a), the candidates were asked; *A farmer went to a photographer and asked her to take a photograph showing all plants in his 50-acre farm. What type of photograph do you think the photographer would take? Support your answer by giving four reasons.* In Part (b), they were asked; *Suppose you have been asked to interpret a photograph of a certain area, how would you use pattern, shape, tone and texture to make your task successful?* A total of 15 marks were allocated for this question.

The question was answered by 14,938 (27.8%) candidates. The general performance was average since 5,818 (38.95%) candidates who attempted this question scored 5.5 marks and above. The analysis shows that 2,062 (13.80%) candidates scored 9 to 15 marks, 3,756 (25.15%) scored 5.5 to 8.5 marks and 9,120 (61.05%) scored 0 to 5 marks. Figure 2 illustrates the performance for this question.

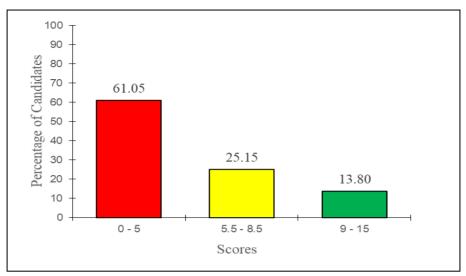


Figure 2: Candidates' Performance in Question 2

Further analysis showed that, 2,062 (13.80%) candidates who scored 9 to 15 marks had sufficient knowledge on the topic of *Photograph Interpretation,* especially on the major types of photographs with their characteristics. In part (a), they identified the type of photograph that would be suitable to show the area which covers 50 acres as *high oblique photograph* with its characteristics such as:

- *(i) Taken by flying either aircraft or balloon.*
- (ii) Taken at the angle below 900 but non-less than 600.
- *(iii)* Have wide panoramic view of a large area.
- *(iv) They cover large area than horizontal/ground photograph.*
- (v) Extract more information than ground photograph.

Likewise, in part (b), the candidates explained the use of pattern, shape, tone and texture on interpreting a photograph. For example, one candidate wrote:

- (i) Pattern shows the arrangement of objects on the photograph. It helps to display the regular (man-made) and irregular(natural) patterns.
- *(ii)* Shape refers to the structure or appearance of an object identified.
- (iii) Tone is the amount of colour reflected back after capturing an object's image. It shows how bright or dark the object is. For

example, forest appears dark, glacial appear white or bright and water bodies appear dark.

*(iv) Texture shows how smooth or rough the object is.* 

Extract 2.1 illustrates such a correct response for this question.

2 althout in a photowards to be taken in	
2 of The type of photograph to be taken is blique Aerial photograph	
bennise ;	
because: DIL shows the top view of the object as it is taken at 90° above the ground	
in taking at 90° above the avoid	
1) It shows each reature on the photographed	
area.	
will is not accepted by male distrution as	
11) It is not affected by scale distortion as it does not have a varying scale.	
the trues rate voice at voiriging states.	
will is not accepted by dead anound as it	
1) It is not affected by dead ground as it focuses on all objects.	
b) i) Pattern	
- Refers to the arrangement of objects on the photograph. If the objects on the photograph are planned, it may suggest a planned settlement or artificial porest while if the objects are not planned, it may suggest an urbanized town or natural	
the photograph. If the objects on the	
photograph are planned. it was support	
a planned settlement or articular corest	
while is the objects are not planned, it may	
supprest an urbanized town or natural	
Forest.	
D Shape.	
-The shape of the object on the photograph	
determines what the object is. If the	
-The shape of the object on the photograph determines what the object is. If the object is long and vary, it may agaest a road or a river on the map photograph or a circular feature on the photograph may suggest a well.	
a road or a river on the map photograph	
or a circular feature on the photograph	
may suggest a well.	

2. b) III) Tone	
Refers to the colour of the object on	
the photograph lf the object on the photograph is light coloured's it	
photograph is light coloured's it	
may suggest alaciated regions; Lakes	
Also if the tone is dark, it may suggest a dense forest	
Also if the tone is dark, it may	
suggest a dense forest.	
N) Texture	
It generally repers to the courseness or pineness	
of the object on the photograph. Areas or	
objects on the photograph with pre texture	
of the object on the photograph. Areas or objects on the photograph with pine texture or smoothness suggest waterbodies, glaciated reasons and deserts while coarse textured	
rearing and deserves while course textured	
objects on the photograph tend to suggest	
dense prest.	

Extract 2.1: A sample of the correct response for question 2

Furthermore, 3,756 (25.15%) candidates who scored 05 to 8.5 marks had unsatisfactory knowledge of the topic of *Photograph Interpretation*, especially on the major types of photographs with their characteristics.

In part (a), some candidates gave the correct type of photograph, but failed to give reasons. For example, one candidate mentioned *high oblique photograph* as a type of photograph, yet failed to support the response with reasons. The candidate explained the characteristics of horizontal/ground photograph which are *picture decrease in scale from the fore to the back ground, show clearly fore ground, middle ground and back ground,* instead of the characteristics of high oblique photograph. Others mixed the characteristics of high oblique photograph with the characteristics of ground photograph. For example, one candidate wrote, *it has no horizon, the front and side view are seen.* These are the characteristics of ground photograph; therefore, they were incorrect answers. Correct answers were *taken at the angle less than 90*<sup>0</sup> and *extract more information than ground photograph*.

In addition to that, in part (b), some candidates failed completely to describe the given terms. Others explained the terms inadequately and some managed to get few of them with regard to the demands of the question. For example, one candidate wrote, *tone is dealing with the* 

*crop, texture deals with the nature and environment, shape deals with large area and pattern deals with places* which were incorrect responses. Some of the candidate skipped part (b) of this question.

Likewise, the 9,120 (61.05%) candidates who scored 0 to 4.5 marks, lacked knowledge on Photographs Interpretation as a result they could not name the type of photograph in part (a). Also, they failed to describe how pattern, tone, shape and texture are used in describing photograph in part (b). Extract 2.2 represents a sample of an incorrect response for this question.

02: @ The type of photograph is gr GROUND ph otograph. Because of the following reason.
oto araph.
Decause of the following reason. DShow all feature clearly, DShow relative small grea.
@Show all feature clearly,
(i) Show relative small grea,
(D) It is taken from a ground level when Camera lies horizontally to the objects. (D) call decrease from fore to back.
Camera lies horizontally to the objects.
@Scale decrease from fore to back.
(b) O shape by observing the appearance and
size of a given photograph.
6 O shape by observing the appearance and size of a given photograph. UP attern by observing the how people spread own an area or population stru cture of a place. (ii) Tone by observing the purpose of that photograph. (iv) Texture by observing the nature of soit either is find fine sand or course sa
spread own an area or population stry
sture of a place.
(iii) Tone by observing the purpose of that
photograph.
auture by observing the nature of soit
lither is find fine sand or course sa
nd.

Extract 2.2: A sample of incorrect response for question 2

In extract 2.2, the candidate identified the incorrect type of photograph as *ground photograph*. In the second part, the candidate identified the characteristics of ground photographs, instead of that of the high oblique photographs. In part (b), the candidate failed to explain the visual elements which are used to interpret aerial photograph. These are tone, pattern, texture and shape. This candidate failed to identify the demands of the question and was not knowledgeable about the topic of *Photograph Interpretation*.

## 2.1.3 Question 3: Application of Statistics in Geography

The candidates were given the following statement "One of the high school registry provided statistical records for form five students registration in different combinations for four years as indicated in the following table".

	Years				
Combination	2017	2018	2019	2020	
HGE	258	285	243	267	
CBG	292	310	285	295	
EGM	100	143	180	307	

Then, they were required to:

- (a) Present the data using a percentage cumulative bar graph.
- (b) Explain strengths and weaknesses of the percentage cumulative bar graph. Provide two points for each aspect.
- (c) Comment on the trend of enrolment of students for EGM classes.

The question had a total of 15 marks.

This question was answered by 38,704 (72.00%) candidates. The general performance was good since 28,550 (73.76%) candidates scored 5.5 marks and above. Data analysis showed that 24,898 (64.33%) candidates scored 9 to 15 marks, 3,652 (9.43%) scored 5 to 8.5 marks and 10,154 (26.24%) scored 0 to 5 marks. Figure 3 illustrates the performance of the candidates for this question.

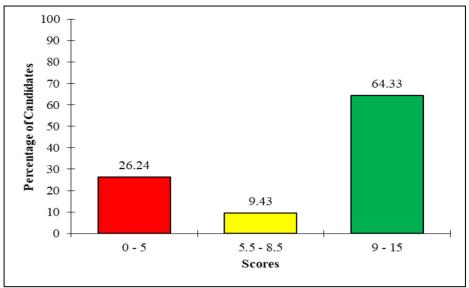


Figure 3: Candidates' performance for question 3

Further analysis showed that 24,898 (64.33%) candidates who scored 9 to 15 marks had adequate knowledge on the topic of *Application of Statistics in Geography* particularly on the use of statistical graphs. They presented data using a percentage cumulative bar graph, explained strengths and weaknesses of the percentage cumulative bar graph and provided two points for each aspect. Moreover, they commented on the trend of enrolment of students for EGM classes. For example, one candidate presented correct responses as follows;

	YEARS				
COMBINATION	2017	2018	2019	2020	
HGE	258	285	243	267	
CBG	292	310	285	295	
EGM	100	143	180	307	
TOTAL	650	738	708	869	

In part (a) the candidate constructed percentage cumulative bar graph by starting with the following cumulative chart from the given data.

From a cumulative chart, the candidate calculated the percentage values of each combination in 4 years. Lastly, the candidate drew a graph to represent the percentage cumulative bar graph showing students enrolment in the three combinations in that High School from 2017 to 2020.

Moreover, in part (b), the candidate explained clearly the strengths and weaknesses of using percentage cumulative bar graph as: Strengths

- *(i) The percentage cumulative bar graph represents more than one item in one graph.*
- *(ii)* The percentage cumulative bar graph enables comparison of different items in one year.
- (iii) The graph looks attractive when different colors or shades are applied.

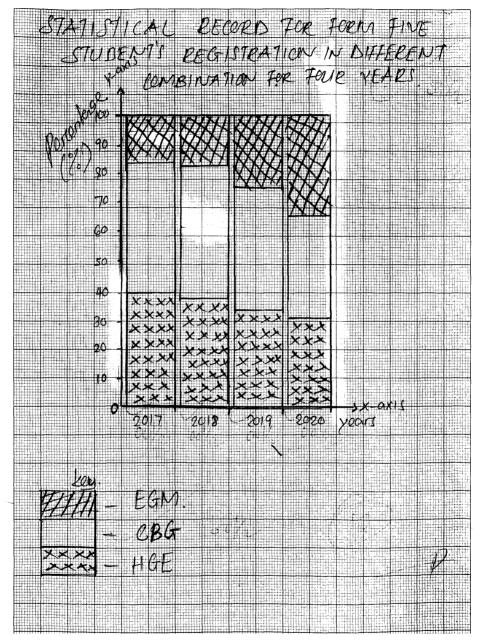
Weaknesses

- *(i) Construction of percentage cumulative bar graph is time consuming since it involves calculation.*
- (ii) If an error occurs in calculation, the whole work is distorted.
- (iii) It is difficult to interpret due to the cumulative values shown.

Moreover, in part (c), some candidates managed to comment on the trend of enrolment of students for EGM classes. For example, one candidate commented that, *the enrolment of students in EGM class is low in the year 2017, but kept on increasing gradually from 2018 to 2020.* Extract 3.1 is a sample of a correct response in this question.

03. 9. To represent by using percentage cumulation 9. 10 1000 bur graph. Solution proceducers is To find the total registered in each year 9017 = 258+292+100 = 650 2018 285+310+143 = 738 2019 243+285+180=708 2020 267 + 295 + 307 = 169 ii) To find porcentage from each combination by taking. From the year 2017 HGE 258 × 1001/= 39.7% = 40% 650 CBG = 29e X 100% = 44.9% = 45 650 EGM = 100 × 100 = 15.4% = 15 650 porcentage lotal = 100%

\$9. In the year 2018 HEE = 285 × 100% = 38:6% = 39 738 CBG = 310 X100% = 42% 738 EGM = 143 × 100% = 19.4% 738 Total percentage = 100%. Year 2019 HGE = 243 × 100% = 34:3% 708 (BG= 285×100% = 40.3% 708 EGM = 180 × 100% = 25.4% 708 Total percentege = 100%. YEAR 2020 (%) HGE 2 267 XIOU % 2 30.7%. 869 CBC = 295 × 100% = 33.9 269



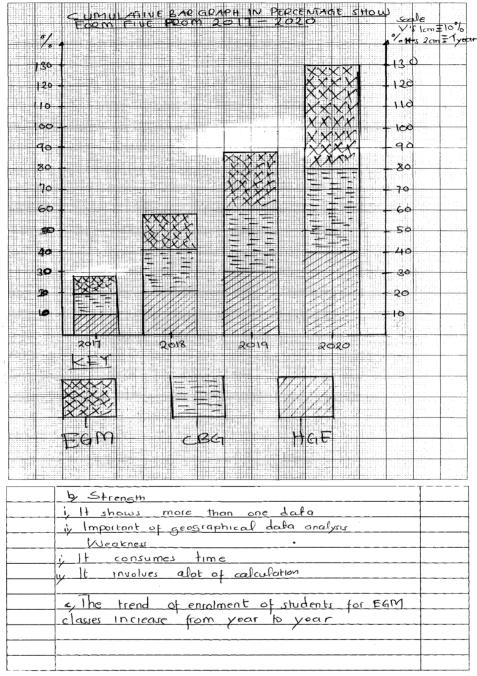
Extract 3.1: A sample of a correct response for question 3

Furthermore, 3,652 (9.43%) candidates who scored 5.5 to 8.5 marks had moderate knowledge of the topic of Application of Statistics in Geography. In part (a), the candidates skipped the part of calculating

data into percentage. Others failed to tabulate data cumulatively, calculation of percentage value of each combination in four years and to draw percentage cumulative bar graph. In part (b), the candidates were able to explain the strengths and weaknesses of the percentage cumulative bar graph. They also commented on the trend of enrolment, but failed to calculate the given data into percentage for each year. Such range of marks is a result of weaknesses of their responses.

The 10,154 (26.24%) candidates who scored 0 to 5 marks had insufficient knowledge of the topic of *Application of Statistics in Geography*. Most of those candidates failed to tabulate the data cumulatively and explain both two strengths and two weaknesses of the cumulative percentage bar graph. Others gave only one point correctly. Also, they failed to comment on the trend of enrolment of the students for EGM classes. For example, one candidate presented data using grouped bar graph, instead of cumulative bar graph. The candidate explained the strengths of the line graph instead of cumulative bar graph and did not comment on the trend of enrolment of students for the EGM classes. Extract 3.2 illustrates a sample of incorrect response for this question.

030	Combination		Years				
	H	2017	2018	2019	2020		
	HGE	258	285	243	267		
	CBG	292	310	285	295	_	
	EGM	100	143	120	307		
	Cumula	tive ta	ble				
	Combination	<u> </u>	Year	5	and and the spectrum in the sp	_	
		2017	2018	- 2019	2020	_	
	HGE	258	543		1053		
	CBG	292	602	887	1, 182		
	EGM	100	243	423	730		
	Cumul	al la perc	entage	for	<u> </u>		
	258 XI				x 1007. =		
	2640	· · · · · · · · · · · · · · · · · · ·		2963			
	543 x	00% = 2	1%	602	100% =	20%	
	2640			2963			
	786 X 100	o% = .	30%	887 y	100% =	30%	
	2640			2963			
	1053 × 10	o% = 2	t0%	1182 >	(100% =	40%	
	2640			2903			
	for EGM						
	100 × 100%	= 7%		HGE	Egm	CBG	
	1496	•	2017	10 %	7%%	10%	
	243 × 100%	= 16%	2018	21%	16%	20%	
	1496		2019	30%	28%	30%	
	423 x 100%	= 28%	2020	40%	50%		
	1496		TOPAL	100%	100%	100%	
	130 , 100%	= 50%					
	1496						
	GRAPH ON BACK OF THE						
		F	XAMINA	TION .			



Extract 3.2: A sample of an incorrect response for question 3

In extract 3.2, the candidate failed to correctly compute data into percentage. In the second part, the candidate drew a *compound bar* graph, instead of the *percentage cumulative bar graph*. This indicated

that the candidate lacked knowledge of computing data into the percentage. The candidate also lacked knowledge and skills of how to draw a percentage cumulative bar graph and to differentiate compound bar graph from percentage cumulative bar graph.

## Section B: Water Masses, Space Dynamics, Position, Behaviours and Structure of the Earth, and Study of Soils

## 2.1.4 Question 4: Water Masses

This question required the candidates to *analyze six factors that influence the ocean water movement*. The question carried a total of 20 marks. It was answered by 31,616 (58.8%) candidates. The general performance was good because 22,993 (72.73%) candidates scored 7 marks and above. Further analysis showed that, 11,132 (35.21%) candidates scored 12 to 20 marks, 11,861 (37.52%) scored 7 to 11.5 marks and 8,623 (27.27%) scored 0 to 6.5 marks. Figure 4 illustrates the performance of candidates for this question.

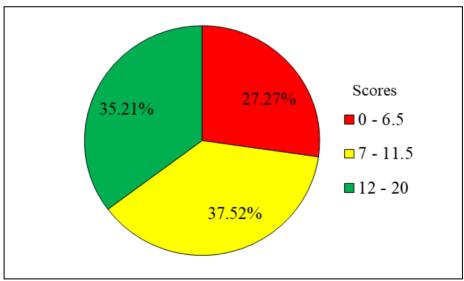


Figure 4: Candidates' Performance for Question 4

More analysis showed that 11,132 (35.21%) candidates who scored 12 to 20 marks had sufficient knowledge of the topic of *Water Masses*, specifically on the concept of ocean water movement. Some of them

scored higher marks because they wrote relevant introduction. For example, one candidate wrote, *ocean water movement involves the movement of water either horizontal movement (ocean currents) or vertical movement (tides / waves)*. Also, they analysed correctly the six factors that influence oceanic water movement as follows:

- (i) Earth's rotation, the rotation of the Earth influences the direction of ocean currents, such current are deflected to the left side in the Southern hemisphere and to the right in the Northern hemisphere.
- *(ii) Gravitational pull between the Earth and the Moon and the Sun.*
- (iii) Wind, when wind blows on the surface of ocean water, the friction between wind and water develops waves movement. The longer the duration of the wind blow, the larger the ocean water movement and vice versa.
- *(iv)* The shape of the land mass or ocean topography. The land mass influences the direction of the flow of ocean currents.
- (v) Temperature, influences the direction of the flow of ocean currents in which warm ocean currents flows from a high temperature zone. For example, the Mozambique ocean current.
- (vi) Salinity or density of the ocean water. Area with high salinity tends to have high density which leads to vertical movement of oceanic water.
- (vii) Tectonic forces/ earth quakes/tsunami.

Finally, they provided relevant conclusions such as, *ocean current plays a significance role in shaping the ocean coast hence influence fish colonies and sites for tourist attractions*. The variations of their marks was a result of the strengths and accuracy of their responses. Extract 4.1 illustrates correct responses for this question.

4.	Ocean water movement involve	
<b>-</b>	movement of ocean water, it may be of	
	two kinds either horizontal known as	
	ocean currents and vertical known as	
	fides. The water in ocean move due	
	different factors.	
	Some of the factors are as follows.	
	Earth and moon gravity; The	
	Earth and moon gravity; The gravitational pull between the earth	
	and the moon cause water in the ocean	
	and the moon cause water in the ocean to move this is known as high and	
	Low tides which occur daily in the oceans,	
	Potota of the earth 'Ac the earth	
	rotates on it's own axis it generate q	
	force called collionis force which causes	
ļ	deflection of objects towards Left on the	
	northen hemisphere and rightwards on the southern hemisphere this includes the water in ocean hence movement. Tectonic forces Different Endogenic forces Leads to ocean water	
	the southern hemisphere, this includes the	
	water in ocean hence movement.	
	lectonic forces Dipperent	
	endogenic forces leads to ecean water	
	movement, forekample the occurance of	
	earthquake or volcanism influence much	
	ocean water to move in different direction called ocean currents.	
	alle the large Ales of the	
	centripugal force; Also as the earth revolve around the sun, there is	
	a coopilized Apres which does august	
	a centrifugal force which goes away from the centre of the earth hence	
	causing acogn water to move.	
<u> </u>		

4. Wind; Also the ocean water	
may move due to the influence of wind.	
it move in the direction of wind for example	
Strong winds Like prevailing winds influence	
water movement also other seasonal	
winds influence water movement in the	
Drean.	
Human activities; The transportation	
by using large ships in the ocean may cause movement, fishing activities conducted in the ocean can cause the	
may clube novement, fishing activities	
conducted in the ocean can cause the	
oceanic water movement example due	
to application of bombs and explosions	
in the ocean.	
All in all, the movement of	
oceanic water is more advantageous	
oceanic water is more advantageous as follows, it enables the transportation	
on water due to waves and tide's also	
it causes apparation of power from	
tides called tidal energy and it influence	
the formation of different scenery glond	
tides called tidal energy and it influence the formation of different scenery along the coasts which attracts tourists.	

Extract 4.1: A sample of correct response for question 4

The 11,861 (37.52%) candidates who scored 07 to 11.5 marks had moderate knowledge on the topic of *Water Masses*, especially the factors that influence the ocean water movement. Some candidates misconceived the factors that influence the ocean water movements with those that affect the temperature of a place. For example, one candidate wrote, *distance from the sea, latitude, altitude,* instead of the factors that influence the ocean water movement. Some of them wrote only few correct points, while other candidates mixed correct and incorrect responses. For example, one candidate wrote *change in Sea level, ice and snow melting*, where these are impacts of climate change.

On the other hand, 8,623 (27.27%) candidates who scored 0 to 6.5 marks had insufficient knowledge of the topic of *Water Masses*, especially the type of ocean water movements. Some candidates provided incorrect introduction. For example, one candidate introduced the question that, *ocean current is the movement of water from area with high pressure zone to the area with low pressure zone*, instead of *ocean water movement*. The candidate wrote some concepts found in the definition of wind. Other candidates mixed-up correct and incorrect

response. For example, one candidate wrote, *Altitude, Latitude, Aspect and Elevation.* These are the factors influencing temperature therefore, they were not correct responses in accordance to the demands of the question. Extract 4.2 is a sample of incorrect response for question 4.

	]
1. Occur; Is the largest wider body in the world, and it is	
4. Occar, is per layer where way not correct, and it is	
The following are the fadors that Influence the Ocean water	~~~~~
movement.	
Climate; Climate affects the magnent of ocean	
water where by during the dry climate water tends to more may be drie to the occurrance of wind water	
move from One side to another side of the Ocean.	
Keliot ; also topograph of the ocean many lead to the	
movement of Ocean water from the an area of high land relief or topycaph to the one of low land relief	
or topograph due to the presist coparess of the part of	
an Occur,	
Yeyektlion cover: This can be the fator which inthem-	
Ce the Ocean ridler movement where by rider tends	
to move from the Ocean to the plants for transpiration privet	
ss or In Order for the plasts to gain ruder though their	
nont.	
Nature of the Underlying parent rock materials; These also affects the influence the Ocean water movement	
also attest the instruction the Owan water movement	
where by water tends to penetrate design ward in an	
area with the permiable rock, so do the prevence	
of permisable rock down the crean can loud to the crean	
water movement.	
Stainage ander; Also this Influences the movem	
ent of Ocean under from the Ocean to the tributaries	
where by dieto the prevence of mapy tributaries	
in accion the ocean can lead to movement of	
Ocean water.	

<u> </u>	P
4.	Nature of the soil; If the soil near the prean
	have pores with large size the water tends to mare from the Ocean to the soil but also 4 the soil
	male from the Crean to the soil but also ly the soil
	have no water holding capacity the Orean tends to
-	lose mater.
	There fore; Cacan ruader tends to move in our
	daily life and some water bodies presence are
	daily life and some water bodies presence are the products of Gr Ocean nator movement.

Extract 4.2: A sample of an incorrect response for question 4

In extract 4.2, the candidate analysed the factors influencing availability of underground water such as *climate*, *relief*, *vegetation cover*, *nature of the underlying rock*, *braided stream and nature of the soil*. The candidate had to analyse the factors for ocean water movement which are *rotation of the earth*, *gravitational force*, *wind*, *ocean topography*, *temperature*, *salinity*.

### 2.1.5 Question 5: Space Dynamics

In this question, the candidates were required to *justify* the statement that, *globally climate conditions are changing due to natural and manmade factors* by giving *eight points*. The question carried a total of 20 marks.

The question was answered by 51,127 (95.10%) candidates. The general performance was good since 44,653 (87.34%) candidates scored 7 marks and above. The analysis showed that, 26,187 (51.22%) candidates scored 12 to 20 marks, 18,466 (36.12%) scored 7 to 11.5 marks and 6,474 (12.66%) scored 0 to 6.5 marks. Figure 5 illustrates the performance of candidates for this question.

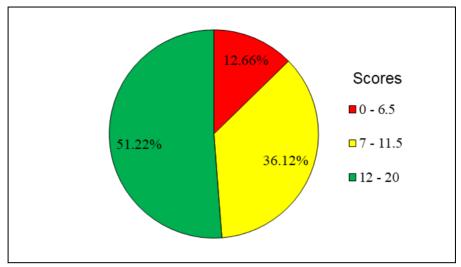


Figure 5: Candidates' performance for question 5

Further analysis showed that, 26,187 (51.22%) candidates who scored 12 to 20 marks had adequate knowledge in the topic of *Space Dynamics*, especially on the way natural and man-made factors influence climate change. Candidates who scored higher marks provided relevant introduction. For example, one candidate introduced the question that: *Climate refers to the average weather condition of an area which has been recorded over a long period of time, it might be over 50 to 70 years*. Likewise, they explained how natural and man man-made factors influence the change of climate conditions globally. For example, one candidate justified by giving the following points:

Natural causes

- Variations in the solar energy (solar variation), sunspot activity which occurs in cycles may significantly affect our climate. Times of high annual temperature on the earth appears to correspond to periods of maximum sunspot.
- (ii) Massive volcanic eruptions (volcanic activity) that emits greenhouse gases and lots of dusts into the atmosphere, may increase global temperature. The world temperature is lowered after any large single eruption due to increase in dust particles in the lower atmosphere which will absorb and scatter more of the incoming radiation.

- (iii) Plate tectonics, (continental drift) Plate movements have led to redistribution of land masses and to long term effect on climate. This effect may lead to land mass drifting into different latitudes or from the seabed being pushed upwards to form high fold mountains which can lead to colder climate and can act as barrier to atmospheric circulation.
- (iv) Ocean currents. Changes in oceanic circulation affects the exchange of heat between the oceans and the atmosphere. This can have both long-term effects on world climate and short-term effects such as EL-Nino.

Human causes;

Human activities in different sectors in one way or another have contributed to the global climate change in the following ways;

- (i) Industrial activities emit greenhouse gases, these gases steam from burning fossils fuel such as gasoline, coal, oil and natural gas.
- (ii) Deforestation. Cutting down trees without planting new ones may result to the decrease in the absorption rate of carbon dioxide from an area. Likewise, reduces the supply of moisture to the atmosphere through transpiration.
- *(iii)* Bush fire or charcoal burning may increase dusts particles as well as greenhouse effects or global warming.
- *(iv) Automobile engines emit smokes, carbon dioxide gas and other pollutants. These gases destroy ozone layer which later increases temperature through global warming or green house effects.*

Extract 5:1 is a sample of a correct response for question 5.

3. Climate change refers to term used to destru	
describe all the processes which cause the atmosph	_
eric condition of a place to change over a certa	-
in period however the changes may be positi	
ve or negative. Recently, the world had a sta	
ble and favourable climatic condition because	_
there was no dangerous activities done by ma	_
n which were so destructive by the current 21 st	
century the world is experiencing the changes	-
in the climatic condition such as the increase	—
in temperature (global warming), drought, flooding	
deserbification among others, both triggered by	
both natural and man-made factors.	_
The following are the natural factors	_
causing the global climatic change in the	
world;	_
Volcanic activity. The process of eruptan	
of magina and other materials from the earths	
surface such as gases and liquids had been	
triggering the occurance of climatic change.	
During the volcante eruption, there is emission	
of harmful gases such as Methane, sulphur	
and Carbon dioxide (CO2) which spreads to	
the atmosphere and lead to the formation of	
greenhouse layer which had been the root	
cause towards occurance of global warming wh	
cause towards occurance of global warming whi ch affects the earth's climate negatively there is Plate tectonics or earth's movement. The	
Plate tectorics or earth's movement. The	
movement of tectoric plate on the earth's author	
apphere had also been a trigger towards the	
clinatic change, This is due to the fact that	
climatic change, This is due to the fact that the regions have cold climate are shifting to	

5	
<u> </u>	wards the areas with hot climate and vice verse
L	is true. The earth's movement has also lead to
	the formation of features such as mountains,
	basin which then affective the temperature of
	a place. Forexample the regions around Kilima
	njaro and Mer mountains.
	The astronomical relationship between the
	sun and Earth. on the other hand there is
	periods when the sun is far from the Earth
	geographically known as Aphelian, for about
	152 million kilometres and the period when the
	sun is at the nearest position to planet earth
	Knows as perihelian for 147 knillion kilometres.
	The changes on the distances of planet Earth
	from the sun have a direct influence on the
	climate of an area such that there is the period
	or high temperature and low temperature especi
`	ally on the equatorial regions.
	Solar variability. The variation on the ano
	unt of insolation received by Earth over differe
	nt periods of the year has also different offe
	ets on the climate leading to climatic change
	The variation on the solar insolation is experience
	of due to different seasons of the year, ocean
	currents, prevailling, slope, aspect and urbaniza
	tran cloud formation and Albedo among other
	however the aveas receiving much insolation
	tend to be highly affected than those receiving
	low insolation.
	On the other hand, man had been influe
	ncing dimatic changes through the following
	faiturs.
	JT

<b>5</b> .	Deforestation and clearing of vegetation
	The rapid growth of population in the world
	has contributed to land scarcity in different parts
	of the world and therefore man had been
	clearing trees and other vegetation cover so as
	to establish settlement and to carry other econo
	mic activities such as agriculture industrial octi
	vities which has therefore contributes to low Carlor
	on fixation (CO2) and atmospheric circulation of
	an area leading to great impact on the climate
	of an area. Forexample in longo basin and
	Nigeria.
	Industrialization and urbanization, on the
ļ	other hand the establishment of industries and
	urban centres has also contributed to climatic
	change in the world. The Industries has been
	emitting harmful gases such as CO2, Methane,
	Sulphur and ethane which have a great Impact
	towards the global dimate. The gases have been
	cawing the occurance of global warming and
	avidio rainfall and depletion of ozone layer.
	Forexample In ching and Japan.
	Agricultural activities. Also the agriculture
	activities which encourages the use of Inorganic
	fertilizers, pesticides and machines have causing
	negative effects to the global climate. This is due
	to the fact that the chemicals tend to evaporate
	to the atmosphere and there constituents leads
	to the decline in production because it leads
	to the occurance of drought. other bad cultural
	practices includes, moracultural farming, shifting culti
L	hation, among others. For example in Kenya.

5	- Burning of fossil fuels and extraction of
	power. The burning of fossil fuels such as coal
	and nuclear energy and extraction of geothermal
	energy is also affective to the global climate
	because it leads to the emmission of harmful
	gases to the atmosphere such as Carbon dizixide
	((O2) and other radizautive elements to the atm
	osphere thus leading to the depletion of the
ļ	shield protecting the earth. This is therefore
	eawing the occurance of climatic change. Fore
	xample the Fukushing nuclear power plants
	in Japan.
	trenerally, the human activities are the
	major factors towards the global climatic change
	in the world, therefore human actively must parti
	cipate in monitoring and changing their activi
	ty so as to retain the nature. some of the me
	asures to be done is through afforestation and
	reforestation proper agricultural activities must be
<u> </u>	done, Industries have to be allocated for from people settlement and the use of alternative
	Sources of energy
	sources of an ergy
L	

Extract 5.1: A sample of the correct response for question 5

The 18,466 (36.12%) candidates who scored 7 to 11.5 marks possessed average knowledge of the topic of *Space Dynamics*, particularly on the concept of climate change. Some candidates explained insufficiently the natural and man-made factors for climate change. Some did not provide relevant introduction and they mixed correct and incorrect factors for climatic change. Other candidates explained correctly the natural factors but failed to provide human factors for climate change. Some of them managed to mention only man- made factors.

On the other hand, the 6,474 (12.66%) candidates who scored 0 to 6.5 marks had inadequate knowledge of the concept of climate change. Some candidates managed to provide relevant introduction and conclusion, but failed to justify how both natural and man-made factors lead to change in climate conditions. One candidate provided relevant introduction and conclusion but misconceived the question as he/she explained the factors affecting temperature of a place such as *latitude, distance from the sea, vegetation, latitudinal location* as natural factors for the change of climatic condition. Another candidate misconceived the natural and human factors as on the main body he/she explained natural factors for climate change such as; *Volcanic eruption, Astronomical difference between the sun and the earth, falling of meteorites and plate tectonic movement*, as human factors and vice versa. Extract 5.2 illustrates such an incorrect response for question 5.

5	Olionate refer to the accard water
0	and the that are recorded are a long anial
	Climate refers to the general weather conditions that are recorded over a long period of time such as 30 years. Climate of an area can vary from place to place and from time to time, this is due to vanous reasons of factors
	of time such as so years commale of an area
	blue their is the to sample masses of leaders
	which can either be non-made or natural fac-
	by The following and of the lother of
	This the following are some of the facture of
	tors the following are some of the factors of the chinate change in an area. Vegetation, this refers to the general term of plants and frees in an area. This is a factor for climatic change because in the areas where there is dense regetation then the clima-
	Vegetation, mis veters to me general
	Perm of plants and mees in an area. This is
	a factor for climatic change because in the areas
	where there is dense vegetation then the cuma-
	The is likely to consist of raintail every now and
	te is likely to consist of rainfall every now and then due to the evaporation of water from trees and plants while in areas with no vegetation there is
	Plants while in areas with no vegetation there is
	inte or no raintail hence climate (mange.
	little or no rainfall hence climate change Latitude this is the position of the learth) place on the earth where the areas which are located at the equator, also others located in other
	place on the earth where the areas which are
	Cocarea at the equator, also others cocarea in other
	areas differ in climatic condition therefore the
	latitude location of a place is also a factor of climatic change on the earths surface.
	climatic change on the earth's surface.
	Altitude this refers to the factor that
	causes climatic conditions to change where
	as the altitude means that the earth areas
	which are eleverted have different climatic
	conditions with other areas which are not
	elevated hence causing vanishion in chimatie
	conditions.
	Aspect this means that the areas
	which are elevated or mountaineous areas
 	contain or have their own kind of climate

5. which is different from other areas. Hence this	
is another factor which leads to changing of	
the dimention condition the earth is suffered	
Prevailing winds this refers to the move-	
ment of air from the greas of high pressure to	
the areas of low pressure. This is a factor for	
climate change because due to the movement	
Prevailing winds this refers to the move- ment of air from the areas of high pressure to the areas of low pressure. This is a factor for climate change because due to the movement of wind from one place to another it causes the change of the environment condition for in-	
the change of the environment condition for in-	
tance if the area was doudy the wind blows	
away the clouds hence climate changes.	
Rainfall or precipitation, this is another	
factor for the change of climatic conditions	
tance if the area was doudy the wind blows away the clouds hence climate changes. Rainfall or precipitation, this is another factor for the change of climatic conditions whereby in the areas where there is high occre nee of rainfall or precipitation it leads to cooli- ng of the area because of existence of high tem perature therefore rainfall occurs to stabilize the place hence change of climate conditions. Presence of water bodies, this is also ano- ther factor for the change of climate whereby in the areas where they are close or near to the water bodies they experience stable climate and not harsh but the areas where are far from the	
nce of rainfall or precipitation it leads to cooli-	
ng of the area because of existence of high tem	
perature therefore rainfall occurs to stabilize the	
place hence change of climate conditions,	
Presence of water bodies, this is also ano-	
ther factor for the change of climate whereby	
in the areas where they are close or near to the	
water bodies they experience stable climate and	
not harsh but the areas where are far from the	
not harsh but the areas where are far from the water body they have different climate especially the desert areas.	
the desert areas.	
Human activities these are the activiti-	
thuman activities these are the activiti- es which are done or practiced by human bein gs for various purposes, there are other human n activities which are done which affect the	
gs for randous purposes, there are other huma	
n activities which are done which affect the	
climate of the area such as the industrial	
destruct and lead to climate change.	
destruct and lead to climate change.	
5 Generally, the climatic conditions of a	
particular place are determined by the above factors therefore due to climate change it en-	
factors there fire due to already thank	
The the second and activity of the	
ables the occurrence of various activities in its sea-	
son for instance agriculture, tourism and others	

Extract 5.2: A sample of an incorrect response for question 5

In extract 5.2, the candidate described the factors affecting temperature such as *vegetation, latitude, altitude, aspects, prevailing wind* and mixed with irrelevant factors, instead of human and natural causes of climate change.

### 2.1.6 Question 6: Position, Behaviours and Structure of the Earth

In this question, the candidates were given the statement that, Form five students from school X were heard saying that, the end of the sky is the end of the atmosphere. The question required candidates to classify the structure of the atmosphere so as to address the misconception. They were also required to support their answer with a diagram. The question carried a total of 20 marks.

This question was answered by 46,369 (86.27%) candidates. The general performance was good since 41,803 (90.15%) candidates scored 7 marks and above. The analysis showed that 30,457 (65.68%) candidates scored 12 to 20 marks, 11,346 (24.47%) scored 7 to 11.5 marks and 4,566 (9.85%) scored 0 to 6.5 marks. Figure 6 illustrates the performance of the candidates for this question.

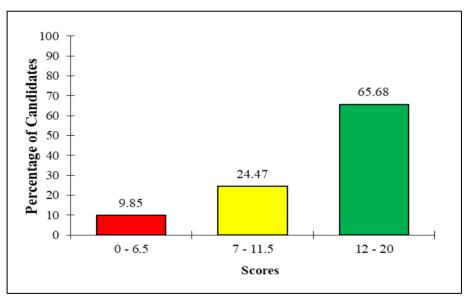


Figure 6: Candidates' performance for question 6

Further analysis in this question showed that the majority of the candidates 30,457 (65.68%) who scored 12 to 20 marks revealed adequate knowledge of the concept of atmosphere in the classification of the structure of the atmosphere. Some candidates provided relevant introduction about atmosphere, clearly described the four layers of the atmosphere and gave the characteristics of each layer. They also

sketched well labeled diagram showing the vertical section of the atmosphere. For example, one candidate provided a relevant introduction that, *Atmosphere is a thin layer of gases held above the earth's surface. The atmosphere consists of different gases like oxygen, carbon dioxide, argon and helium, which are important to living organisms.* The candidates arranged layers with correct descriptions for each basing on the depth, composition and temperature variations. For example, one candidate wrote;

- (i) Troposphere is the lowest and the first layer of the atmosphere, with the thickness of 17 km at the equator and 9km at the poles. It consists of 75% of gases, dusts and water vaporing the troposphere temperature decrease with increase in altitude at the late of 0.6% to every 100m. This refers to as an environmental lapse rate. This is the only layer which support the life of living things because weather elements occur in this layer.
- (ii) Stratosphere it is next layer above troposphere. It is from 17km to 50km. in this layer temperature increases with the increase of height from  $-50^{\circ}$ c to  $0^{\circ}$ c at the top of this layer. The process refers to the temperature inversion. In this layer at about 26km there is a layer called Ozone layer which trap the incoming ultraviolate radiation from the sun. At the top of this layer there is stratopause which separate this layer and mesosphere.
- (iii) Mesosphere, this is the third layer of the atmosphere above stratosphere. The layer is from 50 km to 80km. This layer experience 3000km per hour and it is the coldest layer as at this layer temperature decrease up to  $-90^{\circ}c$ . It contains concentration of iron and metal.
- (iv) Thermosphere this is the fourth layer or the highest layer of the earth's atmosphere. It is separated from the mesosphere by small zone called mesopause. At this layer temperature rise rapidly to about 1500°c because of the ionization and atomic oxygen which absorbs incoming radiation like ozone layer hence reradiating of sun rays lead into temperature increase. The layer is electrically charged particles of ions and free electrons which facilitate radio short waves and wireless communication in the earth's surface.

Furthermore, these candidates precisely sketched a graph indicating the vertical section of the atmosphere. Finally, they provided relevant conclusion. For example, one candidate concluded that; *Atmosphere is very important in human life as it influence different activities through element of weather. Also support wireless communication and protect the earth from ultra-violate rays.* The strengths and weaknesses of the responses led to the variations of their marks. Extract 6.1 is a sample of correct responses for question 6.

6.	3 3	
	surface. The stroophere consist of different gases like: - oxygen, corbondoxid	
	argon and so forth which are important to living organisms for	
	different purposes, the atmosphere not only consist of gases but	
	also duct and water vapour. The atmosphere has an end by consisting -	
	of different layers which is vertically structured. The following	
	is the structure of the atmosphere:-	
	Iroposphere. This is the first layer of the atmosphere	
	which consist of 75% of gases, duct and water vapour. This is the	
	only layer which support the life of living things because weather	
	elements occurs in this layer such as:-precipitation and temperature	
	In This layer, 8km at the poles to 17 km at the equator;	
	In the troposphere temperature decreases with an increase in	
	altitude at 0.6°C per loom this is referred as environmental	
	Lopie rate.	
	Stratophere. This is the second layer of the atmosphere	
	which is separated from the troposphere by tropopouse. It is	
	from 17km to 50 km. However, In the lower part of this zone	
	the temperature is constant: 11 is cloudless, no dust, no smake	
	or no air. In this layer temperature increases from -50°C to	
_	O°c and the altitude also increases, It is referred as temperature	
	inversion. In this layer, at about 25 km there's a layer called	
	Ozone layer which traps the ultraviolet radiations from the	
	sun, which prevent them from reaching the Earth's surface.	
	Mesosphere. This is the third layer of the atmosphere	
	which is separated from the stratosphere by stratospause.	
	This layer is from sokin to 90 km. This layer experiences	
	strong wind of about 2500km/hr and It is the coldest layor	
	In this layer temperature decreases to -90°C or -100°C with	
	an increase in altitude, this is referred as environmental	
	Lapse rate.	

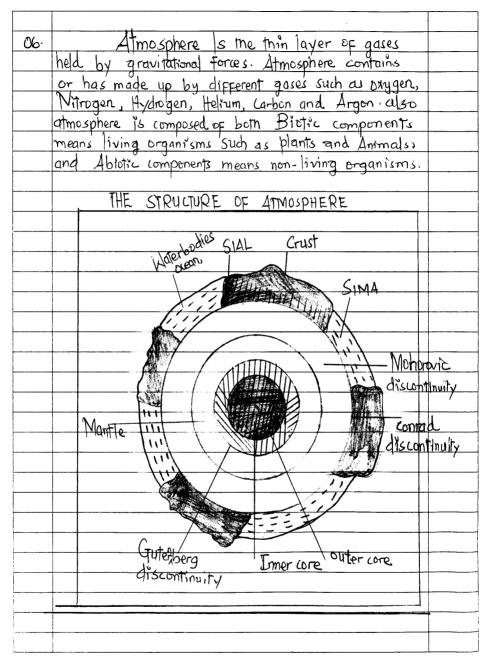
. The	manda l'in it the C II I	
	mosphere. This is the fourth (	aver of the earth's
gimophere /	t is separated from the ma	escophere by a layer
Kone Colled I	nesopouse. This layer experiences	high temperature of
- about _ 1500 °C	. In this layer temperature incr	eaces with an increase
	i anterepreta as temperature i	
	perature due to the solar ene	
	atomic oxygen to thic layer	
	here which facilitate radio shor	
1	into the Earth's surface. The	2 themsphere extend
	nd more into space.	
<u> </u>	apphere. This is the lover while	h extends from 365kr
and above. Ihis	is the layer is dark and l	t's not yet investigat
by the scien	ticts	
<u>і</u> н	SERTICAL STRUCTURE OF THE A	Im oge HERE.
Height		Sonchant Exosphere
In In In	^	(1600r) JANUSPINERE
90-	7	Thermosphere
	/ 	mesopause
60	<u></u>	mesosphere
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40		
	maximum	stratosphere
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		iroposphere
	mount	, Hebobacte
Level	-6 -5 -4 -3 -2 -1 0 2 4	
	T	iemperature (°C)
There	Fore, the atmosphere is coimpo	rich beause, H
	n to Living organisms, provides 1	
	e'- orgon gas , provides light to	
1 1 11	des the sky for birds, on ma	

Extract 6.1: A sample of a correct response for question 6

In addition to that, 11,346 (24.47%) candidates who scored 7 to 11.5 marks had moderate knowledge of the concept of *Atmosphere*, specifically on the structure of the atmosphere. Most of them revealed insufficient knowledge of the characteristics of the atmospheric layers. Some candidates identified layers of the atmosphere with a well labeled diagram of the vertical structure of the atmosphere but gave out few correct characteristics of the layers. Others explained inadequately the characteristics of the atmosphere and did not provide a diagram.

The 4,566 (9.85%) candidates who scored 0 to 6.5 marks revealed little knowledge and skills on the structure of the atmosphere. Some of them provided insufficient introduction and one or two layers of the atmosphere without their characteristics. In addition, some candidates explained the internal structure of the Earth as *crust, mantle* and *core*, instead of layers of the atmosphere. Moreover, they provided a diagram of the structure of the Earth, instead of the diagram of structure of the atmosphere. Extract 6.2 is a sample of such incorrect responses for this question.

06.	
	From the structure of atmospher
	From the structure of atmospher lebelled parts are the parts of Internal structure
	of the atmosphere.
	The atmosphere has divided into three layers
	(i) Crust. This is the outermost part of the atmosphere
	is made up of both SIAL and SIMA
	S14L, Is the part of atmosphere Which has
	"is made up of both SIAL and SIMA SIAL, is the part of atmosphere Which has made up of Continental crust such as rocks, mountains
	SIMA, Is the layer beneath SIAL Which is
	mode up of Oceanic crust such as ocean, Lakes
	and seas.
	SIMA and SIAL are separated by the layer
	called Conrad discontinuity.
	(ii) Mantle; Is the middle part of the atmosphere
	In this layer there is Mantle convection of Magma
	The Mantle and Crust are separated by the layer
	Called Mohorovic discontinuity.
	(iii) (and Is the Those hast on the stand of the stand
	(iii) Core, is the Inner part of the atmosphere. It has divided into two layers
	(a) Inner (ore Which is inside the core
	(b) Outer core is the layer which pound out
	Of the core
	Core is differen semirated from Mantle through
	Core is distingu separated from Mantle through a layer called Guterniberg discontinuity.



Extract 6.2: A sample of an incorrect response for question 6

In extract 6.2, the candidate described the layers of the internal structure of the Earth, instead of the layers of the atmosphere. Additionally, the candidate supported his/her answer by drawing and labeling the internal structure of the Earth, instead of the structure of the atmosphere.

# 2.1.7 Question 7: Study of Soils

In this question, the candidates were required to substantiate by using six points the statement that, Every soil has pore spaces holding water, but the amount of water varies from one place to another. The total marks allocated for this question were 20.

This question was attempted by 31,421 (58.4%) candidates. The general performance was good because 26,948 (85.76%) candidates scored 7 marks and above. The analysis showed that 14,209 (45.22%) candidates scored 12 to 20 marks, 12,739 (40.54%) scored 7 to 11.5 marks and 4,473 (14.24%) scored 0 to 6.5 marks. Figure 6 illustrates the performance of the candidates for this question.

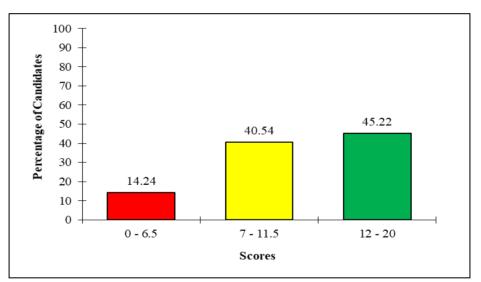


Figure 7: Candidates' performance for question 7

It was further observed that 14,209 (45.22%) candidates who scored 12 to 20 marks had sufficient knowledge of the topic of Study of Soils. They provided relevant introduction and correct factors which determine the variations in the amount of soil water. For example, one candidate defined soil water as *the soil component which makes 25 per cent of the total volume of the soil. In the soil body, water stays in pore spaces between individual soil particles. Soil water is obtained from rainfall and enters the soil through percolation and infiltration.* The

candidate explained correctly the factors which determine the variations in the amount of soil water such as:

- (i) Climate condition of a given place; in areas where rainfall is high like equatorial region there is high volume of soil water. In the areas with low rainfall and high rate of evaporation like arid region soil water is very low.
- (ii) Organic matter content; soil rich in organic matter like clay and loam have high amount of soil water because organic matter particles fill the pore spaces hence soil retains water.
- (iii) Slope or relief; soil in the area with steep slope has low water holding capacity because there is high rate of surface water run off which does not permit water to percolate into the soil, while in gentle slope or flat land, there is high volume of soil water because the rate of percolation is high.
- (iv) Presence vegetation cover restricts surface water runoff hence influences high rate of percolation and protects high rate of evaporation. Hence soil holds high amount of water.
- (v) Nature of the soil particle (soil texture); in the area where there are rough textured soils like sand, water penetrates easily, hence the soil holds low volume of water. Whereas in the fine textured soils like clay, there is high capacity of holding water.
- (vi) Change of seasons; soil water varies from one season to another. This is in the sense that the year with abundant rain even the soil has high volume of water holding capacity and the vice versa is true, while other factors remain constant.
- (vii) Soil depth and human activities; this is in the sense that, soil water varies with soil depth in which the top soil has low water holding capacity and deep soil has high water holding capacity.

Variations of their scores depended on the clarity of their responses. Extract.7.1 is a sample of such a correct response for this question.

7.	soil water is the component
	of soil which constitutes the asile of the soil
	where by soil water is the amount of water
	presence in the soil gince every soil has pore
	spares houding water but the amount of water
	varies from one place to another the pollowing
	are the factors for the variation and which
	infunences soi's water in an area as explained
	betow;
	Precipitation; this is one of the factors
	which influences the amount of water in the
	soi's where by the areas which have high
	amount of soil water it means that they
	experience high precipitation therefore the pore
	spaces of soil are filled with water but the
	areas with little precipitation the soit moisture
	of that area becomes low therefore low amount
	of soit water.
	Soi't texture; soi't texture also influe
	nces the amount of water present in the soil
	where by the sand soi's have rough texture hence
	have sarge pore spaces therefore poorty arained
<u> </u>	which teads to small amount of soil water but
	the chay soi's has small pore spaces hence can
	retain much soit water hence vaniation of soit
	water in different places.
	Topography; this also influences the soil
	water where by the areas uphill have Hittle

<b>J</b> .	vegetation; the presence and absence
	of vegetation also causes the variation in the
	amount of water in the soi's where by areas
	with presence of regetation they tend to have
	high and much soil water because the regeta
	non retains water in their plant roots as well
	as inferences the rate of precipitation compared
	to the sareas with no vegeration which have
	withe soil water therefore variation in the
	soit water.
	Nature of the rock; if the rock in the
	place are permeable rocks which influences
	and facilitates the movement of water into
	It then the soils of that area will have high
	soi's moisture compared to the areas whose rocks
	ane impermeable rocks which do not factivitate
	water percolation in to the ground the amount
	of soit water will be smalt.
	temperature; this also influences the
	soil water variation whereby areas with high
	temperatures tend to have sow and wittle amount
	of water present in the soi's compared to the
	areas with now temperature due to the now rate
	of evapouration they tend to have high soil
	water hence vaniation.
	Generally; the soi's water is very import
	ant component of the soil because it facilitates
	germination of seed, provide water to the
	micro organism, it also facilitates photo synthesis
	in the Plant making mere own food due to
	avaitabiliting of solit water.

Extract 7.1: A sample of correct responses for question 7

The 12,739 (40.54%) candidates who scored 07 to 11.5 marks had moderate knowledge of the concept of *Study of Soils*, particularly the concept of soil water. Those candidates explained inadequately the factors which determine variations in the amount of soil water. Some candidates mixed correct and incorrect factors. Examples of incorrect answers provided were; *amount of rainfall, distance from water bodies*,

amount of evaporation, nature of the vegetation cover, nature of parent materials and human activities.

Furthermore, the 4,473 (14.24%) candidates who scored 0 to 6.5 marks showed lack of knowledge of the concept of soil properties in association to the factors influencing water holding capacity in the soil. Some candidates managed to give only one or two correct responses. For example, one candidate defined soil as *the particles which are found on the sand which support plant growth*. The candidate gave insufficient explanations on the factors which determine variations in the soil water by writing, *sandy soil is the type of soil which has large space to allow water to pass through which failed to hold water due to large pore space*. The rest of the points were repetitions as the candidate wrote *clay soil, loam soil, silt soil,* where by all these were under one factor that is *soil texture*.

# 2.2 113/2 GEOGRAPHY PAPER 2

This paper consisted of seven questions which were set from two topics; *Population and Development*, and *Regional Focal Studies*. Question 1 and 2 were set from the topic of *Population and Development* while question 3, 4, 5, 6 and 7 were set from the *Regional Focal Studies* topic in the following subtopics; *Agricultural Development, Transport and Communication, Sustainable Use of Forestry, Sustainable Use of Fuel and Power* and *Manufacturing Industries*. The candidates were required to attempt five questions, whereby question number 1 was compulsory. Each question carried 20 marks.

# 2.2.1 Question 1: Population and Development

The question was compulsory and candidates were given the following statement "*The United Republic of Tanzania conducts population census on every 10<sup>th</sup> year*". Then, they were required to *describe eight population characteristics of the 2012 census in Tanzania*.

The question was answered by all 53,761 (100%) candidates. The general performance was average since 18,985 (35.31%) candidates scored 7 marks and above. The detailed analysis showed that 4,984 (9.27%) candidates scored 12 to 20 marks, 14,001 (26.04%) scored 7 to 11.5 marks and 34,776 (64.69%) scored 0 to 6.5 marks. Further illustration of candidates' performance is found in figure 8.

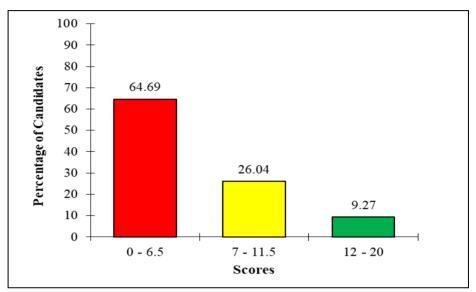


Figure 8: Candidates' performance for question 1

Further analysis showed that 4,984 (9.27%) candidates who scored 12 to 20 marks understood the demands of the question. The candidates had adequate knowledge and skills in assessing the characteristics of population by referring to 2012 census in Tanzania. For example, one candidate defined population as *a number of humans occupying a certain geographical area at a specific period of time*. Also, the candidate defined population census as *the process of collecting, compiling, and publishing demographic, economic and social data pertaining to a specific time to all people in a country*.

The candidate described correctly the eight population characteristics of the 2012 census in Tanzania as; *high growth rates, it was unevenly distributed over the Earth surface, population was dynamic in the sense of migratory, increase in urban households, Tanzania had young population of 43.9 percent, it had unproportioned age- sex structure, it*  had low maternal and infant mortality rates, it was characterized by the presence of diseases such as HIV/AIDS and the increase of life expectance. Those candidates supported their answer with relevant examples. The variations in their scores were influenced by the strengths and accuracy of their responses. Extract 8.1 is a sample of a correct response for this question.

1: Population, Refers to the total number of people in a particular ountry like Tantania, Census refers to the process, of numerating or ountry refers to the process, of numerating or ountry people in a particular pate or country. The tollow- ing were the characteristics of the sois to population of Tanzania of the sois to at Tanzania was uneenly distributed means that the number of people were varies from one region to another pr example the number of People who were living in Merca was differ to those who were living in Merca to various factors: It was dynamic, Population was dynamic where by it undergone some changes that are increased due to several factors compared to the number of people who were living in lanzania in 2002 census; It was faced with different problems, Alig the population of 2012 census was pared with problems like unemployment, Disease, Dimes and, others because in many population the problems are inneritable so that is unly even that population of 2012 census was pared with autore of people who were living in lanzania in 2002 census; It was faced with different problems, Alig the population of 2012 census was pared with problems like unemployment, Disease, Dimes and, others because, M Many population the problems are inneritable so that is unly even that population of that year was faced with differ problems; It was having high dependency ratio. The pulation of Tanzania in 2012 census it was having many, number of people who were not involved in economic activities ruch as having many, number of people who were not involved in economic activities and this	<u> </u>		400 0,
refers to the potent of manenaling of champing people in a particular, place or country - The follow- ing were the characteristics of the 2012 Centur. The value of lanzania of the 2012 Centur. It was unevenly distributed means that the number of people were varies from one region to another for example the number of People who were living linga due to various factors: It was dynamic, Population was dynamic where by it undergne some changes that are increase of people or decrease of people so through 2012 centus the number of people is that the number of people who were living in lanzania in 2002 centus. It was dynamic, Population was dynamic unere by it undergne some changes that are increase of people or decrease of people so through 2012 centus the number of people Increased due to several factors compared to the number of people who were living in lanzania in 2002 centus. It was faced with different problems, Alig the population of 2012 centus the many population the problems are innevitable so that is why even that population of that is why even that population of that year was faced with differ problems; It was naving high dependency ratio. Alio problems are innevitable so that is why even that population of that year was faced with differ problems; It was naving high dependency ratio. Alio population of lanzania in 2012 centus ratio. Alio problems are innevitable so that is why even that population of that year was faced with differ problems; It was naving high dependency ratio. Alio population of lanzania in 2012 centus ratio. Alio	1'	Topulation, Kefers to the total number of	
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not involved in economic activities such as		population of Janzania in 2012 rehrus it was	
	ļ	"having many, number of people, who were	ļ
Agriculture, Irade, Minning and others and this			
		Agriculture, Irade, Minning and others and this	

I group consists of elders, and children so this group was having many number of people compa- ted to independency ratio
group was having many number of people ompa-
ted to independency ratio
IT was having good topulation structure,
This refers to the grouping, of people according
This refers to the grouping of people according to ages and sexs to during 2012 census
the population of Tanzapia was having
a good population structure in terms of
their ages and ver of people who
were living in the quartery
their ages and sees of people who were living in the quarter . It was having high Terfility rate compared
to the former pupulation. Due to various fadors like development of healthy services lead to the high pertility rate where, by it decreased the number of deathy to children, who birth so
like development of healthy services lead to the
high fertility rate where by it decreased the
number of deathy to children, who birth to
this allowed high number of Children.
It was having low life expectancy, Also
it was having low life expediancy due to
Several factors such as diseased, Accidents, natural
disasters and others that is why many people
Several factors such as diseased, Accidents, natural disasters and others that is why many people were not able, to live a long life compared to nowdays where alleast the life expectancy raised.
to Nowday's where allean the life expectancy rayed.
the number of deaths increased duel to various
The number of deaths intreased duel to various
factors such as Accidents, Diseases and other factors so the number of people, who
diet in 0012 central ince there high converse
died in 2012 census was very high compared
to nowdays census for example of 2022. Generally, Census it D, very important in the country because, it helps to determine different things that are relating to the
the country because it helps to determine
different things that are relating to the
population of a particular country like Tanzania.

Extract 8.1: A sample of the correct response for question 1

Furthermore, 14,001 (26.04%) candidates who scored 7 to 11.5 marks had moderate knowledge in the concepts of population characteristics, especially that of 2012 census in Tanzania. Some candidates provided correct introduction and general characteristics of population with

unsatisfactory descriptions. Some of them provided only few characteristics of population referring to 2012 census.

On the other hand, 34,776 (64.69%) candidates who scored 0 to 6.5 marks lacked knowledge and skills of attempting this question. Some of them provided irrelevant introduction of the population census, mixed correct and incorrect characteristics of the population referring to 2012 census in Tanzania. Most of the candidates in this category misinterpreted the question by describing the characteristics of census instead of characteristics of population with reference to 2012 Tanzania Population Census. Others mixed the characteristics of human population with the characteristics of census. Extract 8.2 is an example of incorrect response for question 1.

1.	Population refers to the number of peop
	le that occur in a particular geographical
	unit. Census repers to the enumeration of peop
	le In the country Inorder to attain (some dem-
	ographic goals. There are two types of centrus
	that is According to Approach that is bejure
	census and be Facto consus and According
	to Time Interval that is Ovinquioneal and
	Deccental census. The following are the popu-
	lation characteristics of the 2012 census in
	Tanzania:
	Periodicity, this is the counting of peop
	le at a particular períod of Time. It is one
	of the population characteristic of census
	because It involves the enumeration of peo-
	ple after acertain period of Time. Tanzania
	usually conduct It's census after 10 years,
	thus the Last census was conducted in
	2022 after a period of Ten years from 2012.
	Specifity, this is another characteris-
	tic of population consus because. It is done
	In a specific, territory or a country, It is not
	done elsewhere apart from Tanzanía, It
	is conducted specific in the Territories
	within Republic of Tanzania. Forexample, 1t
	can be done specificly in Dar-es-salaan,
	Dodoma and Tabora.
	(Simultaneoucly, this is the third popu-
	lation characteristics of 2012 census beca-
	use It is conducted simultaneously meaning
	at the same time In each specific territo-
	ry In the country. It means that concus

me In the country but it usually starts at Midnight, hence population characteristic of 2012 census in Tanzania. Individual enumeration, this means that every individual of Tanzania, is required to be listed inorder to enumerate all people ava- ilable in Tanzania. Thus, every citizen must be counted inorder to determine the Total Nu- mber of People in The country. Thus, it is the Forth population characteristic of census in Tanzania during 2012. Costful, during the conducting of cen- sus, it uses alot of government's revenue by Making (Sure and supervising that all pe- ople should be counted also conducting census uses alot of Money from it's process- es till the end, hence population in Tanzania during the conducting of census is too cost- ful, thus population characteristic of 2012 cen- sus in Tanzania. Universility, it means that census is conducted all over the country. Inorder to ab- tain the total number of people in the cou- ntry, All people all over the country. Should be enumerated that is Important because If other people, won't be counted, it lacks this character of population census in the Universilic of Tanzania. Faces Problems, this is the scenth pop- weation characteristic of some of the country. In the United Republic of Tanzania. Faces Problems, this is the scenth pop- weation characteristic.	1	cannot be conducted at the same uniform Ti-
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United Republic of Tanzania. Faces Problems, this is the seventh pop		
Faces Problems, this is the seventh pop	(	Inited Republic of Tanzania.
ulation characterilistic or conjunc heraulio		
	L	lation characteristic of census because

1.	reusponuible Often faceus problemus like Expenui
	veness, Remoteness of some Areas and also
	Language Barrier among the Natives. Thus,
ورب و ورواند و الدروان	the people who are responsible in the colle
	ction of data usually Faces Problems In
	the country.
	Unevenly Dilstributed, this can either be
	High population, Medium or Low population
	This is another population characteristic of
	cencius because not all of the country has
	abalanced population, it differs from place
	to place. Forexample, In Dar-es-Galaam, there
	is High population compared to other regio-
	ns, that's why it is unevenly distributed
	throughout the country.
	All in all, population census is very
	Much Important In Tanzanía because Ithel-
	ps to determine the Total Number of People
	backing on age and cex, Helpis In Setermini-
	ng the Number of Literate and Illiterate
	People, Helps In the Proper provision of Social
	cervices and Lactly Helps In the planning
	of the National Budget in the Nation at
	Large.

Extract 8.2: A sample of incorrect response for question 1

In extract 8.2, the candidate explained the characteristics of census such as *periodicity*, *specificity*, *simultaneously*, *involves individual enumeration*, *it is costly*, *universality*, *face problems* and *unevenly distributed* contrary to the demand of the question. Such incorrect responses revealed that some candidates failed to understand the demand of the question.

### 2.2.2 Question 2: Population and Development

The candidates were given the statement that, "In Africa there is a rampart rural urban migration mostly of the young generation". Then, the candidates were required to account for three causes and three effects of the movement.

The question was attempted by 51,247 (95.30%) candidates. The general performance was good since 50,962 (99.65%) candidates scored 7 marks and above. Further analysis showed that 47,372 (92.44%) candidates scored 12 to 20 marks, 3,696 (7.21%) scored 7 to 11.5 marks and 179 (0.35%) scored 0 to 6.5 marks. Figure 9 illustrates the performance of the candidates for this question.

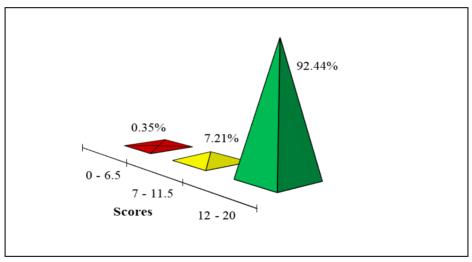


Figure 9: Candidates' performance for question 2

The detailed data analysis showed that 47,372 (92.44%) candidates who scored 12 to 20 marks focused precisely on the question demands. Those candidates gave relevant introduction on the concept of rural urban migration and accounted for three causes and three effects of rural urban migration among the young generation. For example, one candidate defined rural urban migration as; *the movement of people from rural areas to urban areas for the aim of enjoying good life in urban centers due to the availability of social economic services like hospitals, schools, markets, efficient transport and entertainment.* The

candidate accounted for the three causes for rural urban migration as: absence or poor social services in rural areas, poor infrastructure which hinder transportation system in rural areas and absence of employment and industries in rural areas. The candidate further explained the three effects of the rural urban migration as; inadequate labour power, imbalance population structure which results to high population structure, breaking of family and cultural bounds, unemployment in urban areas and poor housing due to overpopulation. Extract 9.1 illustrates such a correct response for question 2.

<i>Q.</i>	Migration report to the movement of people from
	one place to another. There are four types of migration,
	which are rural-urban migration, urban-rural migration,
	rural-rutal migration and urban-murban migrate Poople
	migrate due to climatic conditions, relieve, availability of
	Cotal convince and so that the Mina the has it out a
	social rervices, and so many others. Migration has its positive
	effects in the environment such as increase number of labour,
	and so on. In our communities, the most practised migration
	is rural-urban migration. The following are the causes of
	rural-urban migration mostly to the young generation,
	Search for employment opportunities, most people
	in nural areas especially the youth migrate to urban a reas
	so that they can eearch for employment because their is no employment in rural areas rather than agricultural
	no employment in rural areas rather than agricultural
	activities, which is practised by many Example, a young
	girl aged nineteen migrates from nural greas to urban
	oreas so that she can be employed as a house girl
	in order to not monou to reach her basic needs. Also
	other migrate so that they can zork as cleaners in
	industries because most of them are illiterate.
	Search for social services, most people in nural
	areas especially the youth migrate to urban areas
	so that thou ear sound for social connect such as
	health service education and so poi This is because need
	so that they can cearch for social sorvices such as nealth services, education and so on. This is because rural areas are not provided with appropriate social services
	and they are also unevenly distributed. Example: po a
	pregnant roman sho rants to concive, but shere she
	lives there are no health conters nearby, so she has to
	move to urban areas shere there is availability of
	move to through aleast source there is availably the of
	good health services, ester services and so on.
	Due to trading activities, most people from rural
L	arroas, nigrate to urban greas due to trading activities.

2. Example a product in calling and table (intermediate	
21 Example; a person is selling regetables which are mostly	
grown in nural areas, but when he does that business in	
urban areas he still get more profit because there is	
unavailability ze vegetables because people dont cultivate	
crops. So, this makes people to migrate to rural urban	
areas is search of market that can provide them money.	
The following are the effects of the movements.	
Increase of crimes, when intensive notal-urban	
mymotion occurs especially by young people, increase of	
crimes also appears on the destination area which is	
the urban area. Example, when a person that I come to	
look for job but he is unfortunately influenced by groups of gangs who ongage themselves in theft, drug abuve,	
of goings who ongage themselves in theft, drug abuve,	
and so on. A good example is in Dar-Es-Jalaam in	
Tanzania, where nost people migrate from rural areas	
to Dar-Es-Saham but they are influence of peor-	
pressure aroups the empige themselves in drug abuse	, <b></b>
theft, and so on. That is shy there is no shortage of	
theft, and so on. That is shy there is no shortage of crimes in Dar-Es-salaam and other urban arean.	
Law of man power, shop many people nigrate	
trom rural luban loss of man power occurs on	
the area of origin which is rural areas. Loss of	
man power occurs because most people migrate	
to surban areas in which people who are considered	
to increase man power are the ones who have migr-	-
lated and have left old and children who can not	
conduct activities such as agriculture, Example; almost	
a half and a quarter of young people to the area have	
injusted to urban areas, this leads to decline of agric-	
ulture activities because rural areas are depended on	
agriculture. So it the poople sho can conduct agriculture	
in the society are abort, then map man power decreases.	

p. Population increase, this refore to the increase of
people in an area, when most people especially the
youths migrate from niral areas to urban areas, it
leads to population increase in the place of destination
on shich is the urban areas. Example: In a particular
city there are about seven thousand people (7000) but
abon people migrate the population may increase at a high
rate.
All in all; It is true that many young people migra
te from mural areas to urban areas due to their own factor.
the movement can also lead to spread of diseasees, depres-
tation, and so on The government has to enact strict populat
tion policies and lans.

Extract 9.1: A sample of correct response for question 2

A total of 3,696 (7.21%) candidates who scored 7 to 11.5 marks demonstrated moderate knowledge of the tested topic. Some candidates gave relevant introduction of rural urban migration and accounted for the causes and effects of rural urban migration insufficiently. Some candidates did not exhaust all the six points demanded by the question. Others provided only effects of the rural urban migration without conclusion, while others provided only causes of rural urban migration without migration are; *it leads to failure in the government budget, it leads to overpopulation*, and *political factor*.

On the other hand, 179 (0.35%) candidates who scored 0 to 6.5 marks showed limited knowledge on the concept of rural urban migration because they failed to meet the demands of the question. Few candidates provided relevant introduction of the concept of rural urban migration, but accounted incorrectly the causes and effects of rural urban migration. They also failed to provide examples to their answers. For example, one candidate provided incorrect causes of rural urban migration; *harsh climatic conditions, fertile soil* and *political factor*.

Furthermore, the candidate mixed the correct and incorrect effects of rural urban migration as; *overpopulation, unemployment* and *shortage of social services*. Extract 9.2 is a sample of incorrect response for this question.

12.	Nigration refers to the movement of settlement areas from one place to another place. In African countries mostly of the number of young generation terris to migrate from rural cettlement to urban cettlement where they get mostly their needs compared to rural ettlements. There are the major auces and effects which are could by migration. The following are the cauces of sural when	
	gross from one plane to mother plane. To the GAD	
	countries mostly of the number of young approxition terris	
	to minute from NTal cottoment to urban cottoment	
	where they not mostly their needs compared to the	
	rottements. There are the maint augus and effects which	, 1
	ate numed by migration. The following are the narrow of	
	Climate:- The climate of an orea also	
	buouring young generation to make from rural settlement	
	to urban cottlement where the area with poor climatic	
	Climate: The climate of an area also evoluting young generation to make from rutal settlement to ur ban cottlement, where the area with poor climatic conclition or hash conclition people will tend to mave	
	from one area to the other area for the pursocally to from one area to the other area for the pursocally to have a good climate conclision, where they can have ther own things to b in order to subject their life. Relief'r The slope of an area also it in fluence the migration of people from one place to another place where as it shown to many countries where the area or nature of an area favouring to people for area favouring	
	have a goud climate conclision, where they can have ther	
	own things to be in order to sutisfy their life,	
	Relief's The slope of an area also	
	it in fluence the migration of people from one place	
	to another place where as it than to many countries	
	where the area or nature of an area favours a	
	and bu lands orea, which makes the people to have rural urban mighton, prexample in Dares-saldam, where	
	rural urban migration, prexample in Dares-sulgam, where	
	There are highly number greaply,	i
	Mining and energy resources: The extraction	
	I minerals also it leads to the influence of the migration	
	I people from one area to another grea where as	
	lif Annun that TER MOWMENT of people is lor pomphing	
	minerals, forexample in lanzonia at Geita Katoro, where	
	there are highly population of people are to the gold	
	minerals, for example in Tanzonia at Geita katoro, where there are highly population of people are to the gold mining found at that place and Mwadui in	
	shinyingu also here ore nighly number of people due to the	
L	diamonds ninerals presents to an area,	

02.	The following are the effects which an	
	The following are the effects which an be caused due to rural urban migration.	
	Developments of town and cities: Due	
	to the maxements of people from one grea to the	
	other area, where from rural to urbain settlements, its	
	lads to the development of tawn and cities, for example in	
	Developments of town, and cities: Due to the movements of people from one area to the other area, where from rural to urbain settlements, its leads to the development of tawn and cities, for example in Dar es salcons at Tancania where there highly number of	
	migrants people which leads to the developments of such	
	citres and town.	
	Improvements of transport and communication,	
	Due to the movements of people from rural to urban?	
	sofforants which leads to the acquirings of town and	
	cities, which leads to the improvements of goard introstructures:	
	like the transportation reals to be in standard form and	
	The construction of communication networks to such grea	
	or it stown in pares salaam at Tanzania.	
	Income generation: The sural to urban	
	migration also leads to the income generation as it	
	shown to rank areas whose there are high population	
	of people also hads to the facilitates of trade which they must contribute the payment of targhton to the sciely	
	must contribute the payment of targhton to the sciency	
	and leads to the omprovements of income generation TO TA	
	tountry, prevenue is the trade conducted at kanakoo in	_
	Parties salaom leads to the cantibution of income generation,	
	In conclusively: Not only that the ruled to	
	urban marghan leads to positive effects but also the	
	pogative effects which are it leads to environmental	
	polytion, everyonce of classes, pollikal instability and intracluction of New deasessos.	
	intr-luction of New deasessos.	

Extract 9.2: A sample of an incorrect response for question 2

In extract 9.2, the candidate failed to account for the causes and effects of rural urban migration, instead the candidate explained incorrect factors such as *climate, relief* and *mining*. In the second part, the candidate presented incorrect effects of rural urban migration such as

development of towns, improvement of transport and communication and *income generation*. This reveals that the candidate was not well informed about the causes and effects of young people to migrate from rural to urban areas.

# 2.2.3 Question 3: Agricultural Development

The candidates were given a statement that; "Despite its economic significance, estate farming is faced with many problems". Then, they were required to justify the statement by giving four significances and four problems of estate farming.

This question was answered by 30,872 (57.40%) candidates. The general performance was good since 30,663 (99.32%) scored 7 marks and above. The analysis shows that, 28,350 (91.83%) candidates scored 12 to 20 marks, 2,313 (7.49%) scored 7 to 11.5 marks and 209 (0.68%) scored 0 to 6.5 marks. Figure 10 illustrates the candidates' performance for this question.

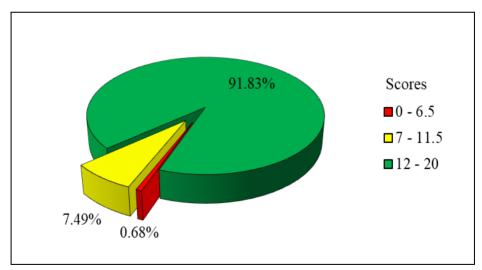


Figure 10: Candidates' Performance in Question 3

Further analysis showed that 28,350 (91.83%) candidates who scored 12 to 20 marks demonstrated sufficient knowledge and skills on the subtopic of *Agricultural Development*, specifically on estate farming. They organized and presented well their ideas. Their essays were well

constructed with comprehensive paragraphs and good flow of ideas. The candidates made relevant conclusion. For example, one candidate defined estate farming as; *a specialized commercial cultivation of cash crops on a large area more than 100 acres*. The candidate gave four significance of estate farming as; *it provides large number of employment opportunities, leads to improvement of local technology, it stimulates the development of transport and communication, it promotes the living standard of the people and <i>it improves the generation of the government revenue*. In addition to that, the candidate gave four problems that face estate farming as; *land degradation, they are exploitative by nature, decline in food production where farmers concentrate on cash crops production, they are expensive as it needs high capital to invest and it leads to mass unemployment due to mechanization. Lastly, the candidate drew a relevant conclusion.* 

3	Estate farming refers to the agricultural
	practice which takes place of large area which the
	application of advanced science and technology.
	This is a commercial type of agriculture also
	known as large scale agriculture. Estate farming
	is manacultural in nature and deals with the pro
	duction of cash crops like sisal, cotton, cocoa,
	tobacco, coffee, rubbe, among others but also
	the food crope like maize, grandouts, millet,
	beans among other are conducted or cultivated
	using this method. In next of the developing
	countries like Tanziania, estate forming is done
	by large anpanies and private organization,
	but also it involve the application of advanced
	science and technology such as the use of
	Tractors, seed drill and howestors so as 12
	yield high quality and plenty resources Inpi
	te of the estate farming being significant shill
	it faces some challenges.
	The following are the significances of
	estate forming towards development;
	It is a jource of employment opportu
	nities in a population. Estate forming has
	been a large source of employment especially
	to the young generation for both skilled and
	unskilled labours. The farming system accord
	date the skilled personnel such as managers, operators and drivers but also the inkkilled la
	bour forces who contributes to the picking and
	racking or is harresting activities. The and
	packing or in howesting activities. The employment opportunities raises the quality of li
	ving of people in their respective areas and

3	enable then to acquire their basic needs
	such as food, shelter and clothes. Forexample
	in Tanzania more than 200,000 people aire
	employed on the estates each year.
	Stimulates the Industrial development
	in the country. The estate farming also has
	a antributing role on the development of the
	Industrial sector in the cantry which had bee
	na rest factor towards the progress in develo
	pment in different countries of the world. The
	estate forming produces plently row materi
	als which are used in the industrial production
	of weful goods like insecticides, food varieties,
	medicines among others which are essential
	for human life. Forexample TPC industry In
	Marhi, and Textile industries which use now m
	aterials like cotton.
	Source of food in the society. The estate
	farming also plays a great role in the produ
	chen of varieus focal varieties which are very
	essential for human life within the population
	Various Fixed stuffs such as maize, beans, grou
	adouts, millet and other cereals have been
	produced in large estates in the country thus
	suite the health and growth of the people. Eu
	d is an essential resource for the survival of
	a person therefore lack of enough food (famile
	a person, therefore lack of enough food (famile and hunger) contributes to death which leads
	to labour icarcity. For example In Tanzania lar
	ge estates are found in Shinyanga, Mara,
	treita, Tanga, Merriguro, Kibaha, Kagera among
	other which with the national food demands.

3.	Estate farming also contributes to earning
	of income for the national and individual develop
	pment. On the other hand, the estate farming
	had been helping the individual formers and
	the government to earn income and revenue
	through selling of various products such as now
	naterials like cocoa, cotton, tea, coffee, tobacco
	among others and food stuffs like maize 12
	other countries which eids towards accumulated
	n of capital for the national development in
	other sectors like trade, tourism, fishing and mini
L	ng, Improvement in the provision of social servi
	ces and Improvement or creater of good
	relationship with other countries. For example lanz
	ania has a good relation of with East African
	countries like Kenya due to the agriculture.
	On the other hand, Estate forming faces
	a variety of problems as follows;
	Climatic variation or changes in the
	climate the estate farming had been affect
	ed by the global climatic change in the 21st
	century which renders low precipitation and
	high temperature which render dryness and
	drought. The climatic variation on the other
	side had lead to low preductivity which
	dues not wit the demands of people in the
	population of an area and outside their
	bound. This has therefore lead to found scarcity
	and backwardness in industrial sectors and
	trade which renders low development rate
	among the developing countries. Foristance In the Tropical and sub-tropical region like la
L	The hold of the server in the server the ser

Rapid pupulation growth. Also the high and uncentrellable growing population is a three at twoords the development of estate farming because it contributes to land scarcity and en ironmental degration which leads to the deal ne of the soil productivity. The expansion on the population in the sub-scheren countries has lead to conducting of hermful and un- sustainable activities which are very harmful to the environment and twoords the develop- ment of the country. Taking an example from the causties like India and china, there is very high population which has a direct effect s towards the development of estate farming. Shortage of capital and more resources two other hand, conducting estate farming is very espensive in terms of preparation of the farms, weeding, planting and harvesting so as to yield quality and planty products. Therefore the organization to have high capital and resources to as to develop this system of agricult ure. The Implements I for a company or priva- te organization to have high capital and resources to as to develop this system of agricult ure. The Implements I for a company or priva- te organization to have high capital and resources to as to develop this system of agricult ure. The Implements I like tractors, seed drill and harvestors are very expensive also paying laboures require a let of mency, thorefore if has become a hurdle towards the develop priva to fast farming. To example in Semal a and kenya the centry has failed to		
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pment of estate forming Forexample In Somali a and Kenya the country has failed to	labourers require a let of meney therefore	
pment of estate forming. Forexample, In Sumali a and Kenya the country has failed (2)	It has become a hurdle towards the develop	
a and kenya the contry has failed to		
manage well the estates?	a and Kenya the country has failed to	
	manage well the estates?	

3. Low science and technology also is a pro
blem facing estate farming. On the other side
the estate forms requires a very advanced on
d modern technology towards the developme
nt of the sector, therefore due to low applica
tion of science and technology such as in weedi
ng, harvesting, imigation among others, The co
untries ptactizing this type of agriculture faces
a lot of difficulties and low productivity whi
ch render low development of the agricultural
sector in most of the sub-scharch countries
like Tanzania, Kenya, Uganga, Congo among
others. The low science and technology appli
ed had been a roct cause towards the
decline on the soil fertility and productivity.
Therefore estate forming develops well in area
with the developed science and technology.
Conclusively, the estate farming is an
essential sectors towards the development of
a country, therefore It is very essential for
a country to invoist more resources on this sector
developing the methods of preduction (the use of appropriate and sustainable methods) previ
spin of trainings and education to the farmers
aring others, so as to develop the sector for
the national development.

Extract 10.1: A sample of correct response for question 3

Moreover, 2,313 (7.49%) candidates who scored 7 to 11.5 marks revealed reasonable knowledge and skills on the sub topic of *Agricultural Development*, especially on estate farming. Most of them understood the question demands but failed to expand their explanations and their essays lacked examples. Some of them managed to define estate farming but explained inadequately the significance of estate farming. Some explained only problems brought by estate farming without conclusion. Similarly, 209 (0.68%) candidates who scored 0 to 6.5 marks had several weaknesses in their responses. They showed unsatisfactory knowledge because they failed to provide relevant introduction, mixed correct and incorrect significance of estate farming and problems encountered by estate farming. For example, one candidate defined farming as; *the process of growing crops*. The candidate explained the significance of farming as; *it helps to get food, it is the source of medicine, it is the habitat of organisms, it helps in increasing soil fertility and eruption of diseases* and *natural calamities,* instead of concentrating on estate farming. Extract 10.2 illustrates an incorrect response for question 3.

2	
Qui	Organic farming, refers to the use
03.	of environmental Frendly methods of farming such
	as manune which increase Fertility to the soil
	while discouraging the use of chemicals in the
	1011. Despite its earonic significance, estate
	Farming is faced with neary probleme. Te
	Following are the importance of estate farming
	and the probleme of estate forming.
	It leads to soil management,
	Since soil gains fentility due to the use of manune
	which adds nutrients to the soil as a result it
	laids to improvement of soil growthe which can
	support the lives of plants and animals. Hence
	Organic forming supports and leads to soil mana-
	general since there is no introduction of chemicale
	To the soil hence improvement of soil health
	in productivity and mechanizer from to take
	place hence development.
	It reduces soil ension, Organic
	faming, Involves the application of manure
	which binds the soil particles together so that
	it can lead to soil maintanance and management.
	Therefore, it eradicates soil existing since there
	is no introduction of chemicals which hinders
	the development of the soil due to introduction
	of hampel chemicals. Hence manune adds nutrients
	in the soil and acts as a binding agents
	lence development of the soil which will se
	enabling productivity and rechanization
	process to take place here development
	It reduces water contamination
	and pollution. These can be caused by surface

Our nur off when a farmer apply chemicals on the	
03 soil when vainfall occurs it causes surface	
number from land to the sea leading to the	
contamination of water bodies. Hence, the tendency	
of application of manine in the soil it helps to	
reduce water contamination since it does not	
employ any introduction of chemical hence	
Water management and preservation.	
It leads to plantz vesistance	
From deseases and pests. due to application of	
organic farming specifically manure in the soil	
it helps the plants to hold op from to the	
coil and also it helps to avoid plants pests	
and diseases. Therefore, manure helps to	
combat pests and diseases here development	, <del>†</del>
and you to of plants which leads to levelop	-
ment of timber industry. Hence manufe provides	
strong and health soil and plants species	1 - 12 
Organic forming is mostly	
available in neval areas where they have vanching	
it acts as an obstacle to people who do not	
engage in livestuck keeping since they do not	
get adequite manure which will enable trem	
to apply in their farm as a result try will have	
to seek for alternative way or to seek to	
the producers of the manufer so that they called	
Le able to apply on their farme.	
in productivity and also it produces low quantity	
in productivity and also it produces low guarties	
of agricultural products hence it does not fulpit	
the demands of the people in the society since, it	
produces low agricultural production - Therefore it	
Č.	

Osp it is mostly covered in small scaled farming meas
03. For food consumption. Hence organic faming fail
to neet the basic demands of people on fine
because it produces study the agricultural products.
Emergence of the leading suppliers
of chemicals especially in developed countries
Such as usa, Japan china they have become
the best supplier of the agricultural chemicals
in the promotion of agricultural products which
will a fin the and as so that to a act the
will make them produce so that to meet the
demands of people in the society and solve
the public of stancetion in the country. As
a result the chemical agricultural products
replaced organic faming created a problem to
estate farming.
Onchrsively; Organic farming
is best method of faming since it supplies
nutrients in the soil making it to be more
Fertile and attract mechanization process to
take place tatter than chemical agricultural
products which hinders the development of
the soil which leads to soil exosion.
in som wyner least in som erosion.

Extract 10.2: A sample of an incorrect response for question 3

In extract 10.2, the candidate defined organic farming as the use of environmentally friendly method of farming such as manure which increases fertility of the soil, instead of defining estate farming. In the second part, the candidate explained the importance of organic farming with mixed irrelevant points such as it leads to soil management, it reduces soil erosion, it reduces water contamination, it leads to plant resistance over disease, it is available in rural areas, it acts slowly in productivity, and it leads to emergence of the leading suppliers. This indicated that the candidate failed to interpret the demands of the question due to little knowledge acquired from the topic tested.

#### 2.2.4 Question 4: Transport and Communication

The candidates were given the statement that, "Nowadays there is an increasing rate of road accidents which cost the lives of the people while leaving others hand capped". Then they were required with vivid examples to; explain eight measures taken by the government of Tanzania to reduce this tragedy in the country.

The question was answered by 19,803 (36.86%) candidates. The general performance was good since 19,693 (99.44%) candidates scored 7 marks and above. The detailed analysis shows that 17,006 (85.88%) candidates scored 12 to 20 marks, 2,687 (13.56%) scored 7 to 11.5 marks and 110 (0.56%) scored 0 to 6.5 marks. Figure 11 illustrates the performance of the candidates for this question.

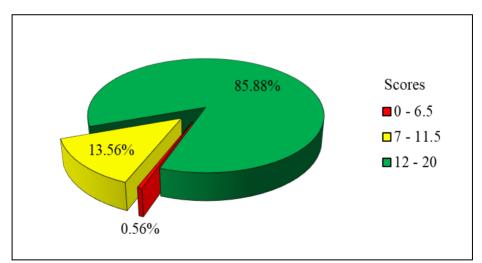


Figure 11: Candidates' performance for question 4

Further analysis indicated that 17,006 (85.88%) candidates who scored 12 to 20 marks had sufficient knowledge and skills on the subtopic of *Transport and Communication*, especially on the concept of road accidents. Those candidates succeeded to define road accidents and explain the eight measures taken by the government of Tanzania to

reduce road accidents in the country. They also ended up with relevant conclusion. For example, one candidate defined road accidents as; *unpleasant events that happens along the road unexpectedly which causes damage and death of people.* 

In addition to that, the candidate explained the measures taken by the government of Tanzania to reduce road accidents as; the government has introduced a law where all public service vehicles must be governed and bumps have been created on the sections of the road in areas where there are many pedestrians. The government has also established road safety education through mass media, the government has intensified traffic police checks with the aim identifying the roads law backers and the government has tried to repair broken-down roads in order to reduce accidents. All roads users are advised to use reflectors where there is a vehicle breakdown, pedestrian using roads during nights are encouraged to wear white clothes which reflects light and the government has introduced strict regulations on the issuing of driving licenses to motorists.

Also, the candidate finalized the question with a relevant conclusion. The variations of candidates' marks were attributed by the strengths and accuracy of their answers. Extract 11.1 illustrates such a correct response for question 4.

04. Provide education to the majority on
reacture. The opternment of Tanzania have been
1 $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$
mainty atizens, was the was at the roady
and its enorgiated react circus to providing the
interpretation of park, and visit and sumple this
and its enable the read uses to use usely the
read signs. Also, the poverment have priviled appareness and equilate, the givens on things
and anarcon and participate the approximation
when gone are prime to read accidents like charing
the road is as there with so zabra crocura
the road in an three with no zebra crossing, chrinking alcohol, while driving or churwing while drank. This has emple the decrease and prevention d
This has ambe the decrease and privation of
Endmont of the Laws and consulation
ons about the read when The compation
ine road accigents. Eractment of the Laws and regulations ons about, the road use. The government have eracted regulations, Laws and rulies upp using the road to both perfections and vehicle drivers. For example pedectrians are instructed to cross the road on Zebra crossing Driver are instructed and regulated to increase
upp which the part to both partastrians
and venicle divers Exertimely pedertions an
instructed to wash the road on Zebra crowing
Drives are instructed and regulated to increase
speed isnereiror them see humpi and a main
speed wherever they see bumps and g that corner. To a Large extent has enabled to
project the occurrance of road actionate
Provide licence and certify the
qualitical clivers through training centers. In
Panzania there are certer his by the asterno
prevent the occurrance of road accidents. Provide license and certipy the qualified clrivers through training centers. In Tanzania there are certes hin by the governme of like VETA which trains people to become
drives and use the read which and they
Later they get qualified and be provided
with licence ready to up ready an
qualified drives This has help to reduce the
l participant participant participant

of number of unqualified drives who are likely D
ause road accidence.
Munish The law breakers the
Apuernment have been punishing the read, we
s who do not doing the raise and regulations
at number of unqualified drives who are likely to anse road accidents. Punish the law breakes. The government have been punishing the road was supported on st obey the taiss and regulations when using the road. For example drink drivers
are kept in juil for some time and get to paus
are kept in juil for some time and get to pay time, dives with no license are prod to pay time, also. This has greatly create thear and
fines also the has greatly cheale fear and
obegience of the grigens in following the
rules, laws and regulations of the read.
trivice end increase police officers
obedience of the citizens in following the rules, laws and regulations of the real. Enprice and increase police officers porce along the roads to ensure mad
torice along the roads to ensure road, earlety, polic offices and traffics have greatly, aid, in preventing, the occurance of the road accidents along and on the roads to example intraffic lights the faffic police are present to check doering or obedience of road was, at each and evens bus stop, traffics, are present. This, has also helps, to check the dicipline of the road was both clivies, and peternian the road was both clivies, and peternian the construction of the construction of the construction of the peternian the even of the construction of the vehicles the construction of the vehicle owneds and drived to have a regular checkup and services of the cars parties, and buses for the purpuse of the cars parties, and buses for the purpuse of the cars proved to employ of the vehicle owneds and drived to have a regular checkup and services of the cars parties, and buses for the purpuse of the cars parties, and buses for the purpuse of the cars prove to cause, the
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accidents Bredample a car with op
remular checkup and services mer Lead, to
services are very prope to cause the read accidents. Forexample a car with no regular checkup and services may lead, E break pulsive hence tend to be hard to
et antivi il on maa hence saaging to gaagenti,
hence regular checkups, and services requiles the
et control it on mad have souding to accident, hence regular checkups, and services reduces the occurrance of road accidents. Therefore The prevention of road accidents has enabled to maintain the man power availa ble hence economic de clopment, has enabled the maintainance of roads preventing them from damaging due to accident thus easily facilitation of frage activities to mention a few.
has enabled to rountain the man power availa
ble hence, economic de velopment, has enabled
the maintainance of roads phononing them from,
gamagings due to accident thus easily palitati
1 no praye activilies to mention a few.

Extract 11.1: A sample of the correct response for question 4

Furthermore, 2,687 (13.56%) candidates who scored 6 to 11.5 marks revealed moderate knowledge and skills on the subtopic of *Transport and Communication*, specifically on road accidents. Most candidates in this category provided inadequate explanations on the measures taken by the government of Tanzania to reduce road accidents. Some

mentioned correct points, with incorrectly explanations and some explained few measures contrary to the demands of the question.

Similarly, 110 (0.56%) candidates who scored 0 to 6.5 marks failed to provide relevant introduction though managed to explain few measures taken by the government of Tanzania to reduce road accidents. Some candidates mixed correct measures and incorrect measures employed to reduce road accidents. Examples of the incorrect measures were; *improvement of taxation, improvement of infrastructure, improvement of vehicles* and *provision of financial aids*. Others were; *provisional of capital, improvement of capital, increase in taxation* and *good government police*.

### 2.2.5 Question 5: Sustainable Use of Forestry

The question required candidates to justify with eight points the statement that "Regardless of having high timber industry potentials in Tanzania, the sector is still lagging behind".

The question was attempted by 46,290 (86.10%) candidates. The general performance was good since 46,017 (99.62%) scored 7 marks and above. The detailed analysis showed that 43,431 (93.82%) candidates scored 12 to 20 marks, 2.683 (5.80%) scored 7 to 11.5 marks and 176 (0.38%) scored 0 to 6.5 marks. Further illustrations of the candidates' performance for this question is found in table 1.

Scores	0 - 6.5	7 - 11.5	12 - 20
Percentage of			
Candidates	0.38	5.80	93.82

Table 1: Candidates' performance for question 5

The analysis showed that 43,431 (93.82%) candidates who scored 12 to 20 marks showed sufficient knowledge and skills on the sub topic of *Sustainable Use of Forestry Resources*, particularly on timber industry. Those candidates were able to justify why the sector is lagging behind with correct explanations and examples. For example, one candidate

defined timber industry as; the industry which involves the activity of producing timber from the forests.

In addition, the candidate explained the reasons as to why the sector is lagging behind as; most of the species are hard wood while there is a demand of soft wood, poor transport network, low capital invested in the timber industry and poor local market as most of the people in the country are poor. Others are; much concentration on other activities rather than timber industry, low level of science and technology in the country, the climate of Tanzania does not favor the establishment of many plantations, low labour supply, shortage of food and high deforestation in the region. Finally, the candidate provided a relevant conclusion by focusing on the efforts to be taken by the Government for the country's sustainable development. Extract 12.1 is a sample of a correct response for question 5.

<u>5</u> .	Timber industry is an industry which deals
	with production of timber from the source of various
	tree species. Timber is necessarily used for construction
	purposon of various infrastructure. Tanzania is endowed
	with various timber inductry potentials but this sector
	of economy is still logging behind due to some
	recens such as low level of technology and others.
	which are shortlicted and ellaborated below:-
	The following are some of the ractors
	hindering the development of timber industry in
	an20110:-
	Lack of enough funds. Tanzonio is compelled by shortage of capital whereby in this situation
	by shortage of capital whereby in this situation
	people annot manage industry climber industry and
	be able to finance all operational activities. This is
	due to the part that Tanzania is among the
	least developing countries, thus the income earned
	national wice is genuinely low compared to the
	rest of the countries
	Low level of technology. The level of science
	and technology that is used in a country like
	lanzania is fow in the serve that machines to be
	used are poor and less advanced. This makes the
	rate of production of timber in their industries.

	to be low. Due to this situation; the government
5	should strive to take nocessary measures to import
	torgign technology through technocrats or tools used.
	Lack of reliable markets. The timber
	industry despite having many potentials; it is said
	to lack markets to which people can purchase
	the produced products. This means that people do
	protor products produced in other countries rather
	than Tanzania and so; less income is earned in the
	Tanzania timber industry thus lagging behind. for this
	comes due to poor quality of products produced,
	Lack of trained personnel. In order for ony
	industry to dovelop to its maximum satisfaction Teve
<u>.</u>	there has to be strong and frained man power for
	the purpose of undertaking various chores' officiently
	and producing large amount of output. In tanzania, there are few poople in the timber industry who are.
	well specialized enough; this makes the economic
	soctor have less dovelopment
	Deporestation activities Deporestation report
	to the cutting down of trees without necessarily
	planting new ones. Deforestation is a destructive activily
	Despite the fact that timber industry depend on
	trees; timber industry conducts appreciation and
	under observation of strict policies such as "KATA MTI PANDA MITI." Therafore deforestation causes
	MTI PANDA MITI." Therafore deformation causes
	soil exosion and relardation of land' foilility; which
	makes the growth of trees dow in an areq.
	Unreliable power supply. There is no
	adoquate and constant power supply indeed as it is
	evident that there are regular supply power cuts. This makes the industrial activities, to not be
	In makes the industrial activities, to not be

5	La la la tales Que ta flas H
	efficiently undertaken. Due to this; the government
	has to opt for alternative energy sources which
	will help in environmental conservation such as;
	Hydro-electric power and Geothermal energy.
	Poor gavernment support. The government
-	actually supports the development of industries as
	it is seen there has been policies like "TANZANIA
	YA NUMANDA" but it doos not knop soonus
	concentration onto the timber industry since poor
	undertaking of activities in this industry may directly
	pose environmental threats in an area. Due to poor
	government policy this industry Lags behind.
	Lack of valuable free species due to the
	competition from other industries and economic section.
	The tree species tend to disappear perhaps as a
	consult or burning activition which consume an
	extensive and large piece of land to be degred out
	Not only that but also, the localization of industries
	and other economic sectors gright the Jearing of the
	land in area
	To sum up. Timber industry however has
	coused various one of to the onvironment such
	aused various opects to the environment such as air pollution, noise pollution due to the machines
	used, soil erosion and even global warming as a
	rosult of emission of harmful gares to the
	environ mont.

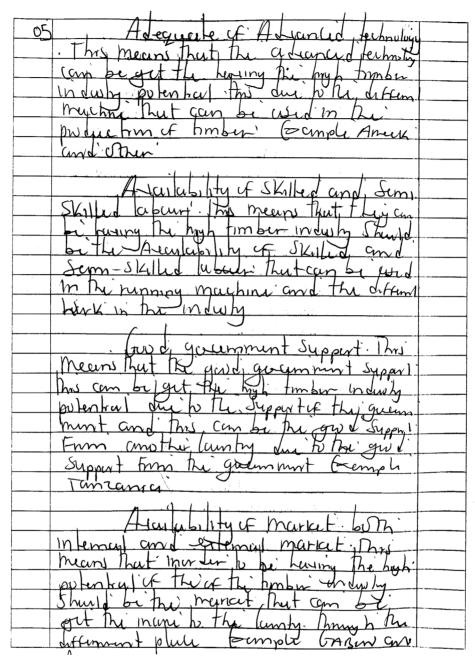
Extract:12.1: A sample of a correct response for question 5

In additional to that, 2,683 (5.80%) candidates who scored 7 to 11.5 marks revealed moderate knowledge and skills on the sub topic of *Timber Industry*. Some candidates gave correct introduction of timber industry, but explained inadequately the reasons for timber industry to lag behind with relevant conclusion. Some provided few factors which lead the timber industry sector to lag behind, contrarily to what was required by the question.

The 176 (0.38%) candidates who scored 0 to 6.5 marks revealed unsatisfactory knowledge of the tested subtopic. Those candidates lacked focus on the subject matter and as a result, they ended up scoring lower marks. Some candidates managed to give correct introduction of timber industry but failed to explain the reasons for lagging behind of

the sector. Some provided few challenges facing the sector, while others mixed the correct and incorrect challenges facing the sector without conclusion. Examples of incorrect answers included; *poor government support, lack of land, lack of fund, weak industrial base* and *price fluctuation*. Some candidates examined environmental impacts of developing timber industries which are; *deforestation, climate change, loss of biodiversity, destruction* of *natural resources and environmental pollution,* instead of the reasons for lagging behind of the sector. Extract 12.2 is a sample of incorrect response for question 5.

Timber, industry - Kefer to The industry That can be in the production of Ember This means that the timber mark con moush com i bused in the production of the The inclusing through the difference Imbu different thmy he wash - and er' Cam he tm produced m the Ferist t can ary num of the many Following pumt 4 Regardless of human the industry putentral the Tampumru Imber lagging behm D hi Sechrissfill builty of fapitul. This means having the high hoby in du potting have 1. ararly it capital that can by many, In The my and my chin timber industry to dreilup. Cause the (Ecomple miny of buying machine and bes I transport and lepoppyreatin This means that Lybrich Cam bi The hybi in industry transport, and The gevel put can be used to hansport the From in dusty the th market and Can be good and the transportute Shint by take place tim eni, place anothe place and this shuld be the many hey bemple bud ondrawthe



Extract 12.2: A sample of an incorrect response for question 5

In extract 12.2, the candidate explained the wrong factors which facilitate industrial development as; *availability of capital*, good transport and communication, availability of skilled and unskilled

*labour, good government support* and *availability of market*. This candidate failed to understand the demands of the question.

#### 2.2.6 Question 6: Sustainable Use of Fuel and Power

In this question, the candidates were given the statement that, "In Africa, Nigeria is among the countries whose economic development relies much on oil production". Then, they were required to examine eight factors favoring oil production in that country.

This question was attempted by 33,538 (62.40%) candidates. The general performance was good since 33,238 (99.11%) candidates scored 7 marks and above. The detailed analysis showed that 29,693 (88.54%) candidates scored 12 to 20 marks, 3,545 (10.57%) scored 7 to 11.5 marks and 300 (0.89%) scored 0 to 6.5 marks. Further illustrations of candidates' performance for this question is given in figure 12.

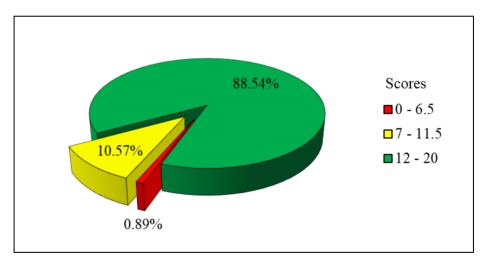


Figure 12: Candidates' performance for question 6

Further analysis showed that 29,693 (88.54%) candidates who scored 12 to 20 marks had sufficient understanding of the sub topic of *Sustainable Use of Fuel and Power*, especially on oil production in Nigeria. Their essays were well constructed with cohesive paragraphs. Those candidates structured well their ideas and presented them consistently in relation to the question demands. For example, one candidate defined oil as *a non-renewable resource which is formed in* 

underground surface interior from decaying of animals and plants for a long period of time.

In addition to that, the candidate examined eight factors favoring oil production in Nigeria as; *the presence of well sheltered oil field which is large and cheap in production, strong government by providing good policies, availability of labour power both skilled and unskilled, good location of oil fields and development of well-structured transport and communication.* Others are *diversification of the economy, high demand of oil in the world markets, abundant oil reserves* and *exploration of Technology.* The candidate provided a relevant conclusion by citing the problems limiting oil production in Nigeria as; *price fluctuation in the world market, shortage of capital, civil war and corruption.* The variations of the candidate's scores were influenced by the strengths and correctness of their responses. Extract 13.1 is a sample of correct response for question 6.

6: Oil production refer to the distractions and processing of Chude oil from the grained of the earth's, oil production tabilite
and processing of chude oil from the
graind of the earth's, oil production taility
to the grawth of Grass national product GNP
in the canny hence facilitate development
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to the cil production and selling cutoide the
Country.
Country. The following are the factors favouring cil Otoductor in Marchia as fallows is
oil production in Migenia a follows:
Advancement of technology, Mgeng
has managed to improve its technology either by innovating or transfers from
either by innovating or transfers from
another countries to its countries hence
this technology lice facilitated the
this technology has tacilitated the growth of oil production. Availability of enaugh Capital to
Availability of charab Capital to
invest, oil production need high and enaugh capital in its production so Migeria hav managed to put enaugh Capital in that sector of oil production which we is used to buy different advance of tools in production hence
enaugh capital in its production so
Nigeria hav managed to put enough
Capital in that sector of on production
which we is wed to buy different
advanced tools in production honce
cil production increase.
cil production increase. Cil production increase. tasernment policy, Nigenia gavernme nt policy is much emphasizing in cil production so its effort is in
Int policy is much emphasizing in
oil production so its effort in
oil production thus why the
Sector bu bring economic development
within the country due to the policy
made by the Mgenia gavernment
on the investment of all production.
1

6:	Availability of Market, Migenic has mananged to abtain market to different
	part of the world especially in Amia
	n Confinent Nigenin has large maitheef
	of selling the ail produced because
	oil is very more demand to different
	campries hence the cil production
	bring economic development in figena.
	Availability of protessional people dealing
	uith all production these people are called Oil engineers, Nigeria has many
	01] engineers, Migenia has many
	oil engineers within the country itself
	does not depend from other countries
	So this people are committed in extraction
	of oil from the graind hence production
	of oil in Nigenia bring economic development
	Enargh paver Supply, Migenia also manancied to keep the cainby
	allo maranged to keep the carning
	to have enough paver supply by improving other alternative saurces of
	energy like hydro-electric paver
	(HEP) and Solar energy hence
	these issure good and enough supply of
	paver to the Indubies dealing with
	oil production hence the industries
	deuxlop.
	Availability of enaugh oil in the
	Around, Migenici if seems to have enough
	Ende oil in the graind which can
	be extracted for a long period of timber
	Without exchantra also this is the pactor
	that Lavar Nigenic, in keeping produing oil.

6: Availability of good intrastructures.
Magning has managed to know it
infrastructure in a good way soas
to encourage the extraction and transport
intrastructure in a good way so as to encourage the extraction and transport about of oil to different partices. Nigene gavernment improved the intrastructure like reads and railways which are used to link from the area of
gavernment improved the infrast meture
The read and railways which
are used to link from the area of
production to the area of Consumption. Lence the economy of the country
hence the economy of the country
develop.
develop. Lastly, Nigeria is amena
of the Atricin (anno) Which Tire
developed by Wing the noniral rescurces by matring full Utilization hence increase development so even the other African Countries
rescurces by mating ful Unization
hence increase development so
even the other Atrican Caunties
Can manange to increase their
Connenange to increase their domestic economy if there are committed leaders and a good gaver
ammited leaders and a goud gaver
hance like ligena.

Extract 13.1: A sample of the correct response for question 6

Furthermore, 3,545 (10.54%) candidates who scored 7 to 11.5 marks showed moderate knowledge and skills on the sub-topic of *Sustainable Use of Fuel and Power*, especially on oil production. Some of them provided correct factors but failed to show clearly how those factors favour oil production in Nigeria.

In the same line, 300 (0.89%) candidates who scored 0 to 6.5 marks lacked knowledge and skills on the subtopic tested. The candidates failed to understand the demands of the question. Some were able to give clear introduction and managed to examine few factors which favour oil production in Nigeria with insufficient explanations. Some mixed correct and incorrect factors. Extract 13.2 illustrates incorrect responses for question 6.

6,	O li procluction: This is activities which shoothe	
	the whole process of hervesting oil from their primary	
	Source like of oil palm as the raw material as	
	well as crop. Oil in Articles is more produced by	
	Nigeria. The following are the factors which favou-	
	ting Oil production in Nigens as Explained pellou	
	Availability of Extrem land/forms; Qit Ke	
	produced & propertial to raw material produced, honce	
	Phorease production of palm oils lead to Phorase on	
	the quantity of oil produced. Alto presence of large	*
	Parm such that like scale plantation Oncrese the	: 
	production of oil crops (palm oil) where latter	
	Parter increase the community of all production	
	Availability of fertile coil; Fertile foil	
	In the one of the source since it support the prout	
	of palm of which will later there the production	
	of palm oil, As the palm of crop increase hem	
	the ste a production & all will be hoose the	
	the one produce in Phyertile Soil. But all in	
	the one produce in Phyertile Soil. But all in all it is influnced by provence of festilisers.	

06. Heavy raintal! Since it is equatorial chilmate
it is favoured with the heavy rainful which will
torour/support the rapid growth of palm of and
hence increve the rate of palm oil production.
For example when the rainful is ut small
or bellow it average Normally the grow y a particu-
lar crop will be poorly and hence thereas of Ry
Phyriablety or declique on production.
Warm condition; Presence & good climatie
condition which is average warm will Phorefe
the rate of arouth of that crop. Since palm
the rate of growth of that crop. Since palm oit is more favoured in the warm condition since
the cold condition lead to dwarfism and poor
growth of the palm oil hence, production decreves.
Good government support; Nigenial have
a Strong support from its galerment. Among y this
support is provision of education to unskilled labour
support is provision of education to unskilled labour minimizing the government takes, improving the guality
a product throug modern equipment and increase
the coast of product and production
Good Hansportation and Communication,
Thes is experienced by looking nature of the transport
used which is the land transport, Since entrantra-
chires are improved and transport muche 14 makes
and transportation a new material. Such that pain
oil transported each and its manufactured good like oil will be the same applied. Availability a both processing and many-
like oil will be the same applied.
Availability & both processing and many
Laduring industrier' therence of industries maker
easy conduction of activities by increasing the -
easy conduction à activitier les increasing the - government tarses, overproduction à manufactureel goods and hence incree in production y oil.
leposets and hence snore in production of oil.

<i>C</i> 6.	Increase in demand of Oil product and -
	growth & Science and technology: Due to incre
	in demand of that row material, to there must be
	to increase in agricultural production so as to produc
	the excase product while will later Phonese Als
	Coart y production, Ratt But also beek of comp-
	etition from other countries, since it it produced in
	Few areas.
	Therefore: Apait from factors influencing
	the production of oil But the Challenge is decree
Jan Martine Street Street Street	in the coast of oil in the market, Excess production
<u> </u>	y Oil, Out detect technology, According and Bylain
	of the oil which is very high to environment after
	Mahiral allrasters like Flood, Derthouseke and -
	Volcamic crupture and also chrought
	7
1	

Extract 13.2: A sample of an incorrect response for question 6

In extract 13.2, the candidate explained the factors which favour the production of various crops which are *availability of fertile soil, heavy rainfall, warm condition, good government support, availability of both processing and manufacturing industries* and good transport and communication. The correct factors which favor oil extraction in Nigeria which are *the presence of well sheltered oil, good policies, availability of labour* and good location of oil fields. Others are; development of well-structured transport and communication, abundant oil reserves and high demand of oil in the world markets.

## 2.2.7 Question 7: Manufacturing Industries

This question required candidates to *explain five roles of ship building industry to the social-economic development of Japan and identify three major challenges facing the industry.*  This question was attempted by 33,236 (61.80%) candidates. The general performance was good since 32,241 (97.01%) scored 7 marks and above. The detailed analysis showed that 21,043 (63.31%) candidates scored 12 to 20 marks, 11,198 (33.70%) scored 7 to 11.5 marks and 995 (2.99%) scored 0 to 6.5 marks. The performance of the candidates for this question is further illustrated in Figure 13.

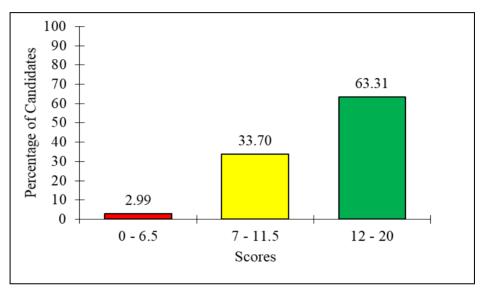


Figure 13: Candidates' performance for question 7

Further analysis showed that 21,043 (63.31%) candidates who scored 12 to 20 marks demonstrated adequate knowledge and skills on the sub topic of Transport and Communication, especially on the ship building industry in Japan. The candidates explained correctly the roles of ship building in the social economic development of Japan and made a relevant conclusion. For example, one candidate correctly provided the roles of ship building industry to the social economic development of Japan as; *creation of employment, development of other sector like tourism, it has facilitated the improvement of the living standard of the people, it has contributed to earning of foreign currency, and it has enhanced the improvement of social services like health services and education.* 

Also, the candidate provided the major challenges facing the industry as; *the industry is threatened by frequency earthquake, stiff challenges from other countries like china*, and *the opposition from the environmentalist*. The candidate ended up with a relevant conclusion. The variations of the candidates' marks was a result of their strength and correctness of their responses. Extract 14.1 is a sample of correct response for question 7.

·	
<u> </u>	Ship building industry in Japan hai been
 	one of the leading producers of ship vescels
	one of the leading producers of ship vescels in the world due to prosence of Islands
	wch as tlonshu, tlokaido, shikoku, hyurshu, that
	have tacititate the development of chip inductry.
<b>}</b>	Japan is vorrounded by water throughout
2	hence the need for chip building was excential
	t ilitie the needed for entry but carring has ecconjul
	to pacilitate other pactors like fishing, transport
	of people, otc.
	the following are the rotes of ship-building industry for docio-economic development
	<u>ship building industry for socio-economic development</u>
	aleneration of national income: as the
 	ship industry is one of the supported economic
 	activity in the nation it has led to
y	income generation due to the torgign currency
·	from other nation due to exportation of
	ship vessel to other nations and also
	local markets has led to gaining of
	local markets has led to gaining of national income this car has contributed
	to economic douclopment.

7.	Employment opportunities; whip industry	
	in Japan has employed many people with	
	different real emproyee many people with	_
	mont in the voctor, this hav led to people	-
	have botter tiving conditions due to	
	have bottler thing conditions and the	
	income carning and also to increase the	
	Improvement and advancement of	
	Hishing sector: due to production of ship	
	veccel 11 has supported the fishing	
	voctor by provision of quality and advanced	
	to other nation by celling to them like	
	Ruccia.	
	transport and communication soctor: such that	
	Transport and communication updor: up that	
	Japan is an Island that is surrounded by	
	water most of it hence the nood for	
	thips for transport was highly needed this	
	Led to the improvement of transport system	
	led to the improvement of transport system expecially water transport. Improved good relation with other countries: as Japan is one of the	
	Improved good relation with	
	other countries: as Japan is one of the	
	leading nation in chip industry and has been exporting this vescels to other nations it	
	exporting ship vescels to other nations it	
	has pacifitated good relation such that it	
	has created good political, upcial and economi	
	cal priordinip	
	The tollowing are the dallenger	
	lacing the chip building in Japan;	
	Competition from other nation;	
	since Japan is a developed countries it also	

7	competitors that also have the need to improve
	more advanced whips than Japan example of
	the nation are China, korea etc. honce
	t creater utbacks to the upton
+ <sup>1</sup>	Low Labour force: chortage of
	100 Labour force, indirage of
	manpower due to the pact that many
	youth protor mining voctor in Japan xince
ļļ	to more economical than ship building
	industry honce creates a challenge to
	induity honce creates a challenge to the ship building induitry due to tack
	a labour torco
	Natural bazards / Climatic bazards;
	processory of turnami that loodic to distraction
	of ship vascels and lindustries hence
	it creater a challenge to the rodor also
	prosence of carthquakes that cause destruction
	to the industries and whip vescels like
	racking or tracturing.
	Conclusively ship building in
	Japan has advanced due to its strong
+	superior has advanced are to the attorny
	economical base, support from the government
}ł	and also its geographical location has led to
<b> </b>	and also its geographical location has led to its development.

Extract 14.1: A sample of a correct response for question 7

Additionally, 11,198 (33.70%) candidates who scored 7 to 11.5 marks revealed moderate mastery of the sub topic of *Manufacturing Industries*, especially in ship building in Japan. They presented correct and incorrect roles of ship building in Japan, some explained only the roles of ship building without challenges, while others provided few roles with inadequate explanations.

Similarly, 995 (2.99%) candidates who scored 0 to 6.5 marks presented few roles of ship building industry in Japan without examples. Some

provided insufficient explanations on the roles of ship building industry in Japan. Others mixed correct and incorrect roles of ship building industry in Japan without the challenges facing the sector. For example, one candidate defined ship building industry as; *the industry that uses steel as raw materials to build ships which are water moving vessels*. Examples of incorrect roles of ship building industry in Japan were; *improved technology, it facilitates the mobility of people, technological changes, skilled labour, decrease of the resources available*. Another candidate explained the factors which favor the development of ship building industry in Japan as; *presence of raw materials, presence of experties, availability of capital, presence of good government support*. Also suggested the challenges were; *political instability, poor markets, and competition from other countries*. The variations of their marks were a result of strengths and weaknesses of their responses.

#### **3.0 PERFORMANCE OF CANDIDATES IN EACH TOPIC**

The analysis of candidates' performance for each topic shows that the candidates had good performance in 12 out of 13 topics. In Geography paper 1, the candidates had good performance in the topics of *Position*, *Behavior and Structure of the Earth (90.15%), Space Dynamics (87.73%), Study of Soils (85.76%), Application of Statistics in Geography (73.76%) Water Masses (72.73%) and Topographical Map Interpretation (64.35%).* Moreover, they had average performance in the topic of *Photography Interpretation (38.95%)*. The candidates had good performance in all the topics tested in Geography paper two. The topics were; *Sustainable Use of Forestry (99.62%), Transport and Communication (99.44%), Agricultural Development (99.32%), Sustainable Use of Fuel and Power (99.11%), Manufacturing Industries (97.01%) and Population and Development (67.48%).* 

The candidates' ability to follow the required examination instructions, the good understanding of the demands of the questions and a good mastery of the subject matter led them to perform well in those topics. Furthermore, good proficiency in English language demonstrated by the candidates enabled them to provide logical arguments, clear explanations and meaningful sentences. The reasons that made the candidates have average performance were; providing few points than those demanded by questions, mentioning correct points without satisfactory explanations and mixing correct and incorrect responses. Others were the inability of the candidates to present the statistical data by using percentage cumulative bar graph and explaining the visual elements of photographs which are tone, pattern, texture and shape in the *Photograph Interpretation* topic.

A comparison of the candidates' performance between the Advanced Certificate of Secondary Education Examination (ACSEE) 2022 and 2023 shows that in 2022, the performance was good in 8 topics, average in 2 topics and weak in 3 topics. Therefore, the performance of the candidates in 113 Geography ACSEE in 2023 has increased. However, the candidates' performance in both years remained constant (good) in *Population and Development, Study of Soils, Manufacturing Industries, Agricultural Development, Transport and Communication* and *Water Masses* topics. On the other hand, the Space Dynamics and *Topographical map Interpretation* topics which had weak performance in 2022, were well performed in 2023. The comparison of the candidates' performance in each topic for 2022 and 2023 is summarized in the appendix. The green colour indicates topics with good performance, yellow colour indicates topics with an average performance and red colour indicates topics with weak performance.

#### 4.0 CONCLUSION

The performance of the candidates in Geography subject for Advanced Certificate of Secondary Education Examination (ACSEE) 2023 was good in almost all the topics as it has been observed in the question wise analysis. The analysis shows that the candidates' good performance was due to their ability to understand the demands of the question, knowledge and skills on the subject matter, competence in English language, and the skills in calculating, drawing and measuring. However average performance has been observed in one topic of Photograph Interpretation. The observed reasons for the average performance were inadequate knowledge and skills of the subject matter and failure to understand the demands of the question.

## 5.0 **RECOMMENDATIONS**

Based on the observations made from the Candidates' Item Response Analysis (CIRA) report, candidates' performance was good in 12 out of 13 topics examined. The average performance was observed in 1 topic. In order to improve the performance for the forthcoming candidates in this examination, the following are recommended:

- (a) Teaching and learning process in classroom should be endorsed with practical activities. It is always expected that students learn better if they are involved in different practicals with support of concrete materials that give them experience and direct knowledge. For example, in the topics of Topographical Map Interpretations, Photograph Interpretation and Application of Statistics in Geography practicals matter the most.
- (b) Graphical drawing skills need to be improved. The graphs need to be specific as the syllabus instructs. Therefore, teaching how to draw graphs by showing the relationship between variables (dependent and independent) should be focused so as to enable the students make sense and ensure easy data interpretation.
- (c) Guest speakers should be invited to schools, especially experts in different topics so as to improve students' performance on non-practical topics like Population and Development.

# Appendix:

<b>Comparison of Candidates'</b>	<b>Performance by Top</b>	bic in 2022 and 2023 Years

S/N	Торіс	2022			2023		
		Number of questions per	Percentage of candidates who scored an average of 35 Percent or more	Remarks	Number of questions per topic	Percentage of candidates who scored an average of 35 Percent or more	Remarks
1.	Sustainable Use of Forestry				1	99.62	Good
2.	Transport and communication	1	95.31	Good	1	99.44	Good
3.	Agriculture Development	1	99.30	Good	1	99.32	Good
4.	Sustainable Use of Fuel and Power				1	99.11	Good
5.	Manufacturing Industries	1	90.80	Good	1	97.01	Good
6.	Postion, Behaviours and Structure of the Earth				1	90.15	Good
7.	Space Dynamics	1	24.50	Weak	1	87.73	Good
8.	Study of Soils	1	96.01	Good	1	85.76	Good
9.	ApplicationofStatisticsinGeography				1	73.76	Good
10.	Water Masses	1	74.30	Good	1	72.73	Good
11.	Population and Development	2	96.82	Good	2	67.48	Good
12.	Topographic Map Interpretation	1	18.70	Weak	1	64.35	Good
13.	Photograph Interpretation				1	38.95	Average
14.	Sustainable Fishing	1	97.10	Good			
15.	Environmental Friendly Tourism	1	85.00	Good			
16.	The Dynamic Earth and Consequences	1	57.90	Average			
17.	Simple Survey and Map making	1	35.60	Average			
18.	Field Research Strategies	1	28.00	Weak			